



扫码关注公众号



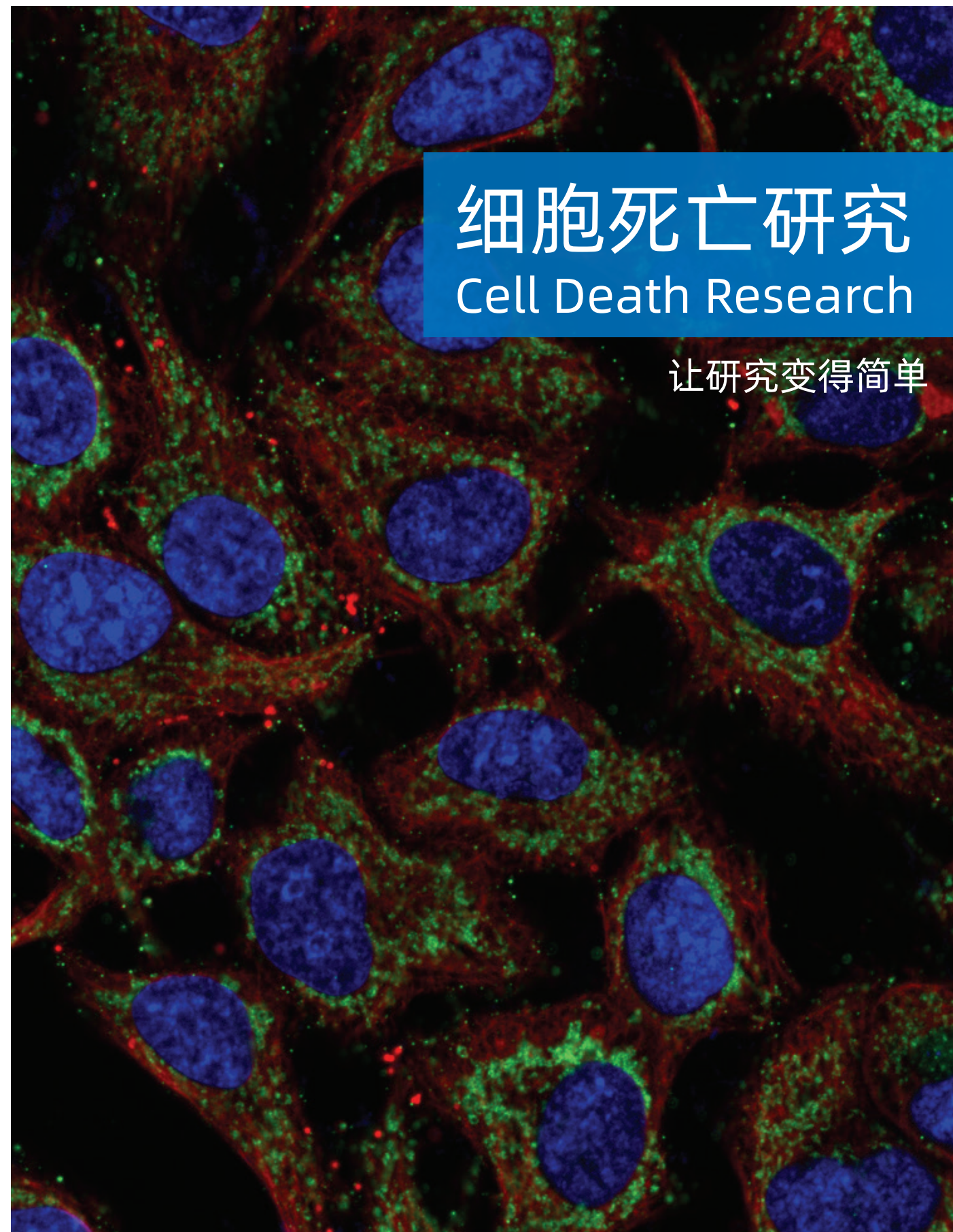
杭州华安生物技术有限公司

☎ 0571-88062880

🖨 0571-88060400

✉ sales@huabio.cn

📍 杭州市钱塘区白杨街道6号大街452号高科技企业孵化园区2号楼16层



细胞死亡研究

Cell Death Research

让研究变得简单

 **华安生物**
H U A B I O

目
录

CONTENTS

1. 细胞死亡概览	01
2. 抗体产品	02-24
2.1 细胞凋亡	02-06
2.2 坏死性凋亡	07-10
2.3 细胞焦亡	10-14
2.4 铁死亡	14-17
2.5 铜死亡	18-19
2.6 细胞自噬	19-24
3. 配对抗体	24-28
4. 重组蛋白	29-31
5. ELISA Kits	32
6. 文献引用案例	33-35

金标验证

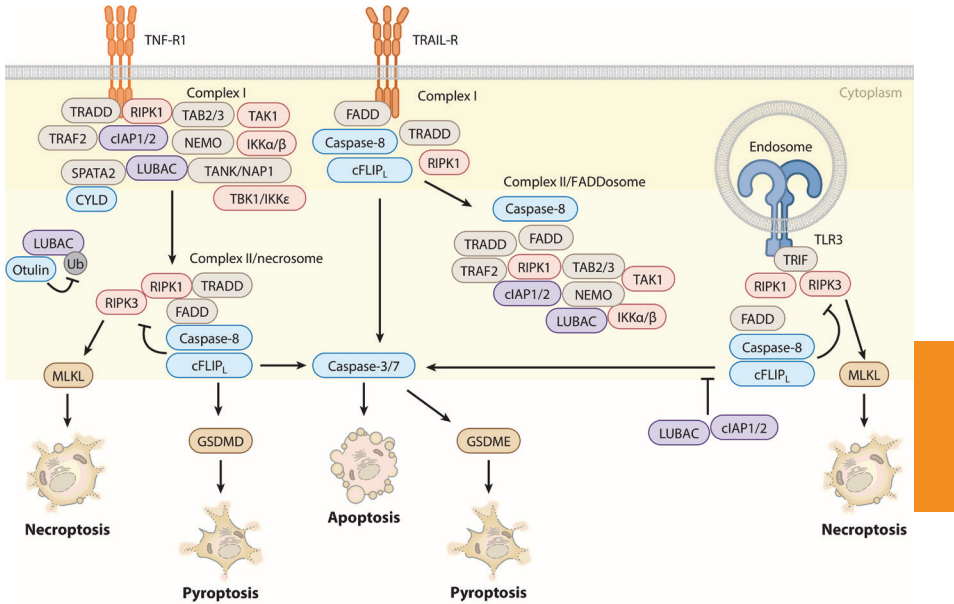
核心靶点全覆盖

识别种属全面，应用广泛

高分文献引用

细胞死亡（Cell death）在多细胞生物的生长发育和体内稳态维持及单细胞生物抵御病原体和适应营养匮乏过程中发挥关键性作用。正常生理条件下，细胞死亡与细胞增殖维持平衡。当细胞死亡过少，则会诱发肿瘤或癌症；细胞死亡过多，则会容易诱发神经退行性疾病。

本产品册将概述近年来国自然申报中备受关注的细胞凋亡（Apoptosis）、坏死性凋亡（Necroptosis）、细胞焦亡（Pyroptosis）、铁死亡（Ferroptosis）、铜死亡（Cuproptosis）及细胞自噬（Autophagy）研究的热门靶标，助力科研工作者在细胞死亡领域的前沿研究。

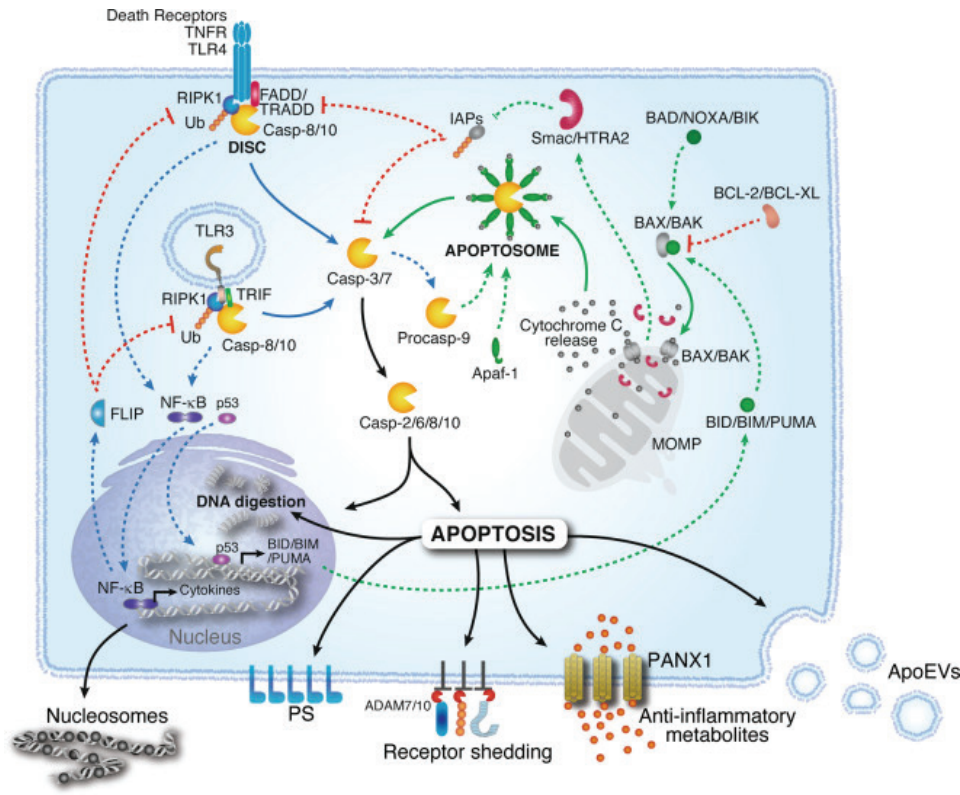


PMID: 37788577

不同细胞死亡的典型特征

死亡类型	生化特征	形态学特征	关键调控基因
细胞凋亡	caspases系列寡聚小体被级联激活	质膜起泡，细胞膜皱缩，体积变小，核碎裂	p53, Bax, Bcl-2, Bcl-XL等
坏死性凋亡	RIP1、3及MLK L被激活等	质膜破裂，细胞器肿胀，染色质适度凝结	RIP1, RIP3, MLK L等
细胞焦亡	GSDMD切割和促炎细胞因子释放等	核复缩，细胞肿胀和细胞膜出现孔洞，细胞塌陷破裂	CASP1, CASP11, GSDMD等
铁死亡	xCT、GPX4被抑制，GSH水平降低等	线粒体变小，线粒体嵴减少或消失，以及线粒体外膜破裂	GPX4, SLC7A11, HSPB1, NRF2等
铜死亡	FDX1、硫辛酰化水平升高及线粒体呼吸水平增加等	线粒体皱缩，线粒体膜破裂等	LIAS, PDHA, PDHB, P16-INK4A等
细胞自噬	溶酶体数量增加	双膜结构自噬溶酶体的形成	LC3, ATG5, ATG7, Beclin 1等

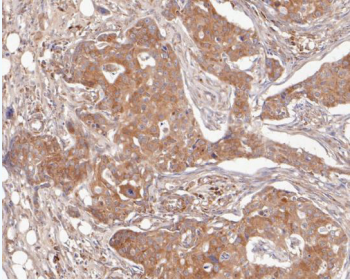
细胞凋亡是一种程序性细胞死亡的形式，是由死亡信号诱发并受调节的细胞死亡过程。细胞凋亡对多种正常生理过程，包括细胞内稳态、胚胎形成和胚胎后发育非常重要。



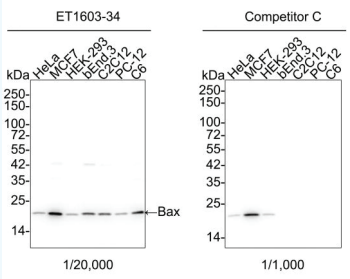
PMID: 33785842

优质抗体推荐

Apoptosis			
Product name	Catalog#	Reactivity	Tested applications
Bad	ET1601-7	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC,IP
Bax	ET1603-34	H,Ms,R,G	WB,IF-Cell,FC
Bax	HA721324	H	IHC-P
Bcl-2	ET1702-53	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC
Bcl-2	HA720210F	H,Ms	FC
BCL2A1	ET1610-20	H,Ms,R	WB,IHC-P,FC
Bcl-XL	ET1603-28	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC,IP
ciAP1	HA722744	H,Ms,R	WB,IF-Cell,FC
Caspase-1	ET1608-69	H,Ms,R	WB,FC,IF-Cell
Caspase-1 + p10 + p12	HA722222	H,Ms,R	WB,IF-Cell,IHC-P
Caspase-2	ET1602-30	H,Ms	WB,IF-Cell,IF-Tissue,IHC-P,FC

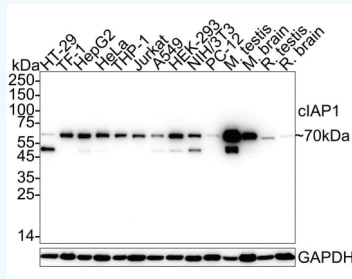


Bad rabbit mAb | ET1601-7
IHC-P staining with human breast carcinoma tissue

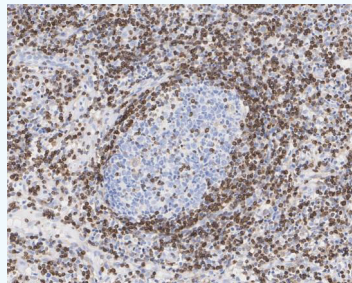


Bax rabbit mAb | ET1603-34

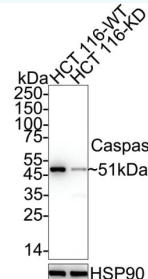
Apoptosis			
Product name	Catalog#	Reactivity	Tested applications
Caspase-3	ET1602-39	H	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
Active Caspase-3	ET1602-47	H,P	WB,IF-Cell,IF-Tissue,IHC-P
pro Caspase-3	ET1603-26	H,Ms	WB,IF-Tissue,IHC-P
active+pro Caspase-3	ET1608-64	H,Ms,R	WB,IHC-P,IP
Caspase-3 p12	HA722235	H,Ms,R	WB,IHC-P
Caspase-6	ET1610-24	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP
Caspase-6 p18	ET1611-83	H	WB,IP
pro Caspase-7	ET1612-28	H	WB,IF-Cell,IF-Tissue,IHC-P
Caspase-7	HA722317	Ms,R	WB,IHC-P,IF-Tissue
Caspase-8	ET1603-16	H	WB,IF-Tissue,IHC-P
Caspase-8 (p18)	HA722482	Ms	WB,IF-Cell
Caspase-9	ET1603-27	H,Ms	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
Active+Pro Caspase-9	ET1610-95	H,Ms	WB,IP
Active+Pro Caspase-9	ET1701-22	H	WB,IHC-P,FC
Caspase-10	ET1701-53	H	WB,IHC-P,FC,IP,IF-Cell
pro Caspase-10	HA722029	H	WB,IHC-P
Caspase-12	HA722837	H,Ms,R	WB,IHC-P
p53	ET1601-13	H	WB,IF-Cell,ChIP
p53	ET1605-16	H	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
p53	ET7107-33	H	WB,IHC-P,FC,IP,IF-Cell,IF-Tissue
p53 (acetyl K370)	ET1602-38	H,Ms,R	WB,IF-Cell,IF-Tissue,IP,FC
p53 (acetyl K382)	ET1612-71	H,Ms	WB,IF-Cell,IHC-P
Phospho-p53 (S392)	ET1606-24	H,Ms,R	WB,IHC-P,IP
Phospho-p53 (T55)	ET1609-13	H	WB,IHC-P
Phospho-p53 (S376)	ET1609-14	H,Ms	WB
Phospho-p53 (S15)	HA721756	H	WB,IF-Cell
Phospho-p53 (S33)	HA722703	H,Ms,R	WB,IF-Cell,IHC-P
Phospho-p53 (S20)	HA722761	H	WB
AIF	ET1603-4	H,Ms,R	WB,IF-Cell,IHC-P,IP,FC
AKT1	ET1609-47	H,Ms,R	WB,IHC-P,IP,FC,IHC-Fr,IF-Cell
Phospho-AKT1 (S124)	ET1701-36	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP
Phospho-AKT1 (S129)	HA721677	H,Ms,R	WB



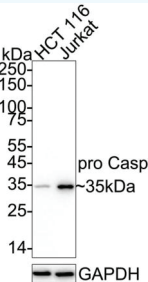
cIAP1 rabbit mAb | HA722743



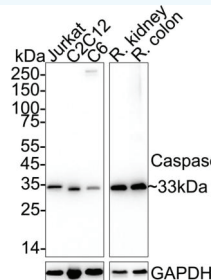
Bcl-2 rabbit mAb | ET1702-53
IHC-P staining with
human B-cell lymphoma tissue



Caspase-2 rabbit mAb | ET1602-30

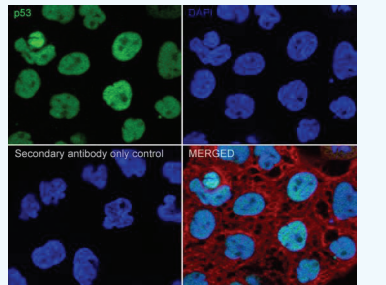


pro Caspase-3 rabbit mAb | ET1603-26

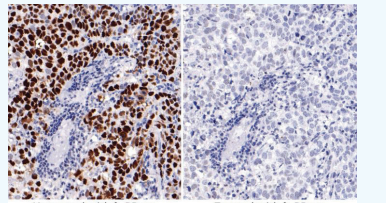


Caspase-6 rabbit mAb | ET1610-24

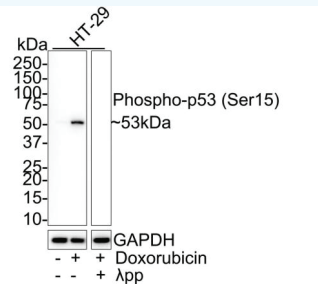
Apoptosis			
Product name	Catalog#	Reactivity	Tested applications
Phospho-AKT1 (T450)	ET1612-73	H,Ms,R	WB,IHC-P,IP,IF-Cell,FC
Phospho-AKT2 (S474)	HA723108	H,Ms,R	WB,FC
AKT1/2/3	ET1609-51	H,Ms,R,Mk	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC,IHC-Fr
AKT1/2/3	HA721870	H,Ms,R,Mk	WB,IF-Cell,FC,IP
Phospho-AKT (S473)	ET1607-73	H,Ms,R,D	WB,IF-Cell,IF-Tissue,IHC-P,IHC-Fr
Phospho-AKT (T308)	HA722951	H	WB,IF-Cell,FC
alpha Tubulin	HA721914	H,Ms,R	WB,IHC-P,IF-Cell,FC,IP
alpha Tubulin (acetyl K40)	HA721271	H,Ms,R	WB,IF-Cell
Apaf-1	ET1607-12	H,Ms	WB,IF-Cell,IF-Tissue,IHC-P
ASK1	ET1608-54	H,Ms	WB,IF-Tissue,IHC-P
ATF4	ET1612-37	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
ATM	ET1606-20	H,R	WB,IF-Cell,IF-Tissue,IHC-P
Phospho-ATM (S1981)	ET1705-50	H,Ms	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
Cellular Apoptosis Susceptibility	ET7106-90	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC
ciAP2	HA722767	H	WB
c-Jun	ET1608-3	H,Ms,R	WB,IF-Cell,IHC-P,IP
Phospho-c-Jun (S63)	ET1608-4	H,Ms,R	WB,IF-Cell,IHC-P
Phospho-c-Jun (S73) +JunD (S100)	HA722800	H,Ms,R	WB,IF-Cell
Phospho-c-Jun (S73) +JunD (S100)	HA722475	H,Ms,R	WB
Phospho-c-Jun (T91)	ET1701-32	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP
Cytochrome C	ET1610-60	H,Ms,R	WB,IF-Tissue,IHC-P,IP,IF-Cell
DDIT3	HA722854	H,Ms,R	WB,IF-Cell,FC
EIF2S1	HA722112	H,Ms,R,Mk	WB,IF-Cell,IHC-P,FC
Phospho-EIF2S1 (S51)	ET1603-14	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
Endo G	ET7106-77	H	WB,IF-Cell
ERK1/2	ET1601-29	H,Ms,R,Z	WB,IF-Cell,IF-Tissue,IP,FC,IHC-P,IHC-Fr
Phospho-Erk1 (T202 + Y204) + Erk2 (T185 + Y187)	ET1610-13	H,Ms,R	WB,IHC-P,IF-Cell,IF-Tissue,FC,IP
Phospho-Erk1 (T202) +Erk2 (T185)	ET1603-22	H,Ms,R	WB,IF-Cell,IHC-P,FC,IF-Tissue
FADD	HA722894	H,Ms,R	WB,IHC-P
Fas(CD95)	ET1701-92	H	WB,IF-Tissue,IHC-P
IKB alpha	ET1603-6	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
IKK alpha	ET1611-15	H,Ms,R	WB,IHC-P,IP,FC



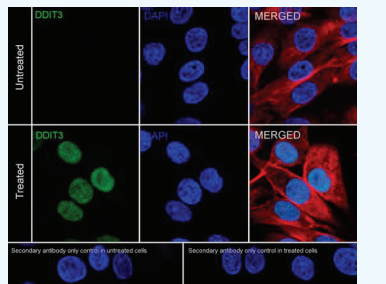
p53 rabbit mAb | ET1605-16
IF-Cell staining with A431 cells



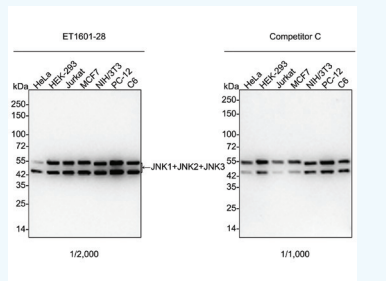
Phospho-p53 (S392) rabbit mAb | ET1606-24
IHC-P staining with
human gastric adenocarcinoma tissue



Phospho-p53 (S15) rabbit mAb | HA721756

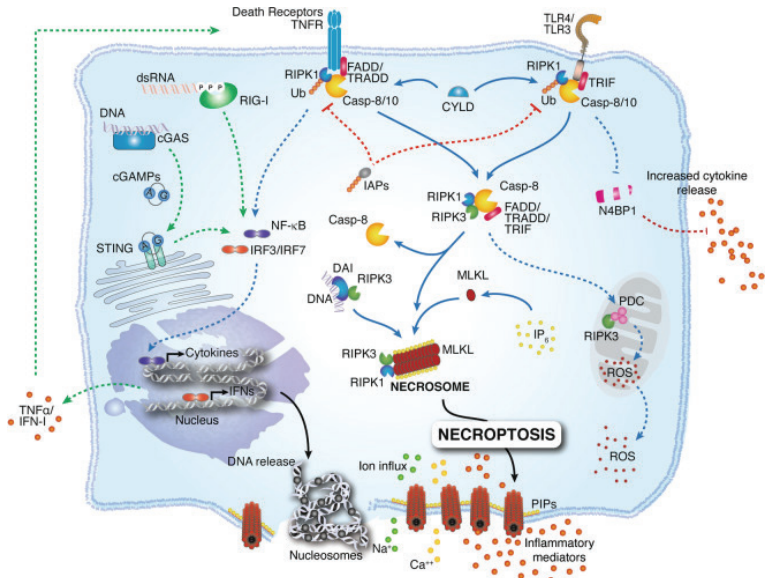


DDIT3 rabbit mAb | HA722854
IF-Cell staining with C6 cells



JNK1/2/3 rabbit mAb | ET1601-28

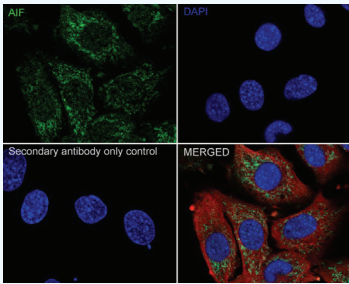
坏死性凋亡是当正常凋亡途径被抑制时发生的一种替代性程序性细胞死亡模式，分别与凋亡和坏死的某些特征相似。研究坏死性凋亡的关键靶标是RIPK3及其底物MLK L。



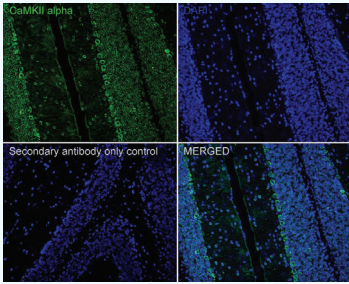
PMID: 33785842

优质抗体推荐

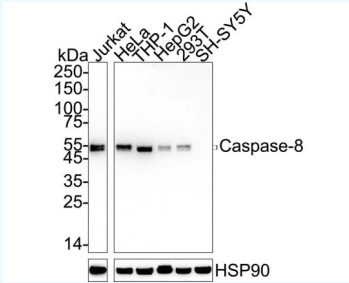
Necroptosis			
Product name	Catalog#	Reactivity	Tested applications
AIF	ET1603-4	H,Ms,R	WB,IF-Cell,IHC-P,IP,FC
Bax	ET1603-34	H,Ms,R,G	WB,IF-Cell,FC
Bax	HA721324	H	IHC-P
Bcl-2	ET1702-53	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC
Bcl-2	HA720210F	H,Ms	FC
Bid	ET1703-92	H	WB,IF-Cell,IF-Tissue,IHC-P,FC,IP
Calpain 1	EM1801-03	H,Ms,R	IF-Cell,IHC-P,FC
Calpain 2	ET1704-90	H,Ms,R	WB,IF-Cell,IHC-P,FC
CaMKII	ET1608-47	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IHC-Fr,FC
CaMKII alpha	ET1703-54	H,Ms,R	WB,IHC-P,IF-Tissue,IHC-Fr,IF-Cell,FC,IP
Phospho-CaMKII (T286)	HA721794	H,Ms,R	WB
Caspase-1	ET1608-69	H,Ms,R	WB,FC,IF-Cell
Caspase-1 + p10 + p12	HA722222	H,Ms,R	WB,IF-Cell,IHC-P
Caspase-8	ET1603-16	H	WB,IF-Tissue,IHC-P
Caspase-8	ET1612-70	H	WB,IF-Tissue,IHC-P
Caspase-8	HA722181	H	WB,IF-Cell,IHC-P,FC,IP



AIF rabbit mAb | ET1603-4
IF-Cell staining with C2C12 cells

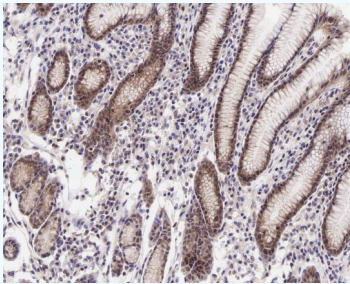


CaMKII alpha rabbit mAb | ET1703-54
IHC-Fr staining with mouse cerebellum tissue

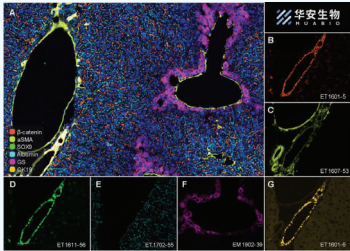


Caspase-8 rabbit mAb | ET1603-16

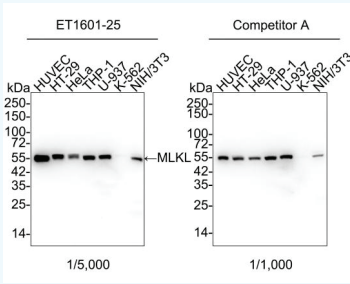
Necroptosis			
Product name	Catalog#	Reactivity	Tested applications
Caspase-8 (p18)	HA722482	Ms	WB,IF-Cell
CHMP2B	ET7110-67	H,Ms,R	WB,IF-Cell,IHC-P,FC
ciAP1	HA722744	H,Ms,R	WB,IF-Cell,FC
ciAP2	HA722767	H	WB
Cyclophilin A	ET1703-33	H,Ms,R	WB,IHC-P
DR5	ET1704-55	H	WB,IP,IHC-P,FC
FADD	HA721353	H	WB,IHC-P,IF-Cell
FADD	HA722894	H,Ms,R	WB,IHC-P
Fas(CD95)	ET1701-92	H	WB,IF-Tissue,IHC-P
Ferritin Heavy Chain	ET1610-78	H,Ms,Z,R	WB,IF-Cell,IF-Tissue,IHC-P,FC
Ferritin Light Chain	ET1705-54	H,Ms,R	WB,IHC-P,IP
FLIP	HA721753	H	WB
GLUD1	HA722392	H,Ms,R	WB,IF-Cell,IHC-P,FC
Glutamine Synthetase	EM1902-39	H,Ms,R	WB,IHC-P,FC,mIHC,IF-Tissue
Glutamine Synthetase	HA723212	H,Ms,R	WB,IHC-Fr
Glutamine Synthetase	IRS033	H	mIHC
Histone H2A (acetyl K9)	ET1602-34	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,ChIP, CUT&Tag-seq
Histone H2A (acetyl K9)	HA721284	H,Ms,R	WB,IHC-P,IF-Cell,CUT&Tag-seq,ChIP
Histone H2A (hydroxyl Y39)	ET1602-35	H,Ms,R	WB,IHC-P
Histone H2A.X	ET1705-97	H,Ms,R	WB,IF-Tissue,IHC-P,IP
Histone H2A.Z	ET1609-23	H,Ms,R	WB,IHC-P,IF-Tissue,ChIP
Phospho-Histone H2A.X (S139)	ET1602-2	H,Ms,R	WB,IHC-P,IF-Cell
HMGB1	ET1601-2	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC
Hsp90 alpha	ET1605-57	H,Ms,R,Mk	WB,IF-Cell,IF-Tissue,IHC-P
Hsp90 beta	ET1605-56	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
Human TNF alpha	HA721286	H	IHC-P,mIHC
IFNAR1	ET1602-37	H,Ms,R	WB,IHC-P,FC,IP,ICC
IFNGR1	HA721952	H,Ms,R	WB,IHC-P
IL-1 beta	ET1701-39	H	WB,IF-Cell,IF-Tissue,IHC-P,FC
IL-1 beta	HA601002	H,Ms,R	WB,ELISA,IF-Cell
IL-1 beta	HA601036	H,Ms,R	WB,ELISA,IHC-P
Interferon alpha 2	HA722967	H	WB,IF-Cell,IHC-P



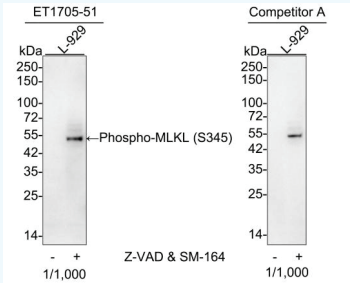
FADD rabbit mAb | HA721353
IHC-P staining with human stomach tissue



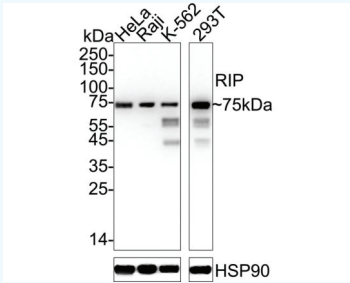
Glutamine Synthetase mouse mAb | EM1902-39
mIHC staining with mouse liver tissue



MLKL rabbit mAb | ET1601-25

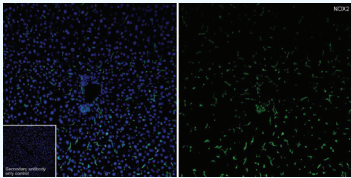


Phospho-MLKL (S345) rabbit mAb | ET1705-51

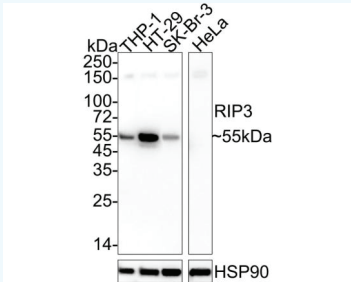


RIP rabbit mAb | ET1701-79

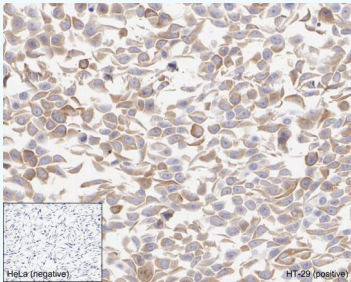
Necroptosis			
Product name	Catalog#	Reactivity	Tested applications
Interferon gamma	ET1703-17	H	WB,FC
IRF9	HA722916	H,Ms,R	WB,IHC-P,IF-Cell,FC,IP
IRF9	HA722963	H	WB,IF-Cell,IP,ChIP
JAK2	ET1607-35	H,Ms,R	WB,IF-Cell
Phospho-JAK2 (Y1007 + Y1008)	ET1607-34	H,Ms,R	WB,IF-Cell,IHC-P,IP
JAK3	ET1705-1	H	WB,IHC-P,IF-Cell
JNK1+JNK2+JNK3	ET1601-28	H,Ms,R,Cw,Mk,Z	WB,IF-Cell,IF-Tissue,IHC-P,IP
Phospho-JNK1/2/3 (T183 + T183 + T221)	ET1609-42	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC,IHC-Fr
macroH2A.1	ET1706-15	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P
MLKL	ET1601-25	H,Ms	WB,IHC-P,IF-Cell,FC
Phospho-MLKL (S345)	ET1705-51	Ms	WB,IHC-P,IHC-Fr
NLRP3	ET1610-93	H,Ms,R	WB,IF-Cell,IHC-P,FC
NOX2 / gp91phox	HA723224	H,Ms,R	WB,IF-Cell,IHC-P,IHC-Fr,IP
PARP1	ET1608-56	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC
Cleaved PARP1	HA722218	H,Ms,R,Mk	WB
Phospho-Cytosolic Phospholipase A2 (S505)	HA722849	H,Ms	WB,Dot Blot
Phospho-DRP1 (S616)	HA722760	H,Ms,R	WB,IHC-P,IF-Tissue,IF-Cell,FC
PKR	ET1610-84	H	WB,IF-Cell,IF-Tissue,IHC-P,IP
Phospho-PKR (T446)	ET1607-20	H	WB,IHC-P,IP,IF-Cell
Phospho-PKR (T451)	HA722067	H	WB,FC,IF-Cell
RIP	ET1701-79	H	WB,FC,IP
RIP3	HA722183	H	WB,IHC-P
Phospho-RIP3 (S232)	HA721428	Ms,R	WB,IF-Cell
SQSTM1 / p62	HA721171	H,Ms,R	WB,IHC-P,IF-Cell,FC,IF-Tissue,IHC-Fr
Phospho-SQSTM1 / p62 (S349)	HA723050	H,Ms	WB,IF-Cell,IHC-P
STAT1	ET1612-22	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC,IP
Phospho-STAT1 (S727)	ET1611-20	H,Ms,R	WB,IHC-P,IF-Cell,FC
Phospho-STAT1 (Y701)	HA722083	H	WB,IF-Cell
STAT3	ET1605-45	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC
Phospho-STAT3 (S727)	ET1607-39	H,R,Ms	WB,IF-Cell,IF-Tissue,IHC-P,IP
STAT4	ET1701-42	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC,IP
STAT5a	ET1610-58	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC



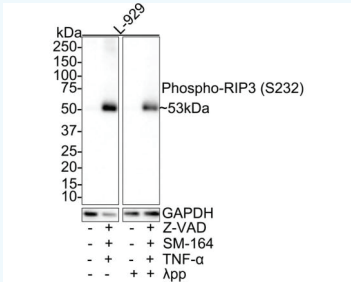
NOX2 / gp91phox rabbit mAb | HA723224
IHC-Fr staining with mouse liver tissue



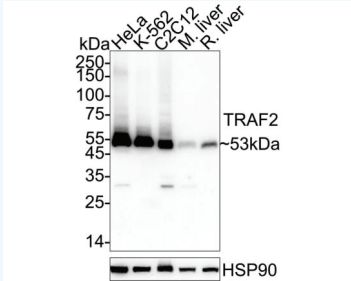
RIP3 rabbit mAb | HA722183



RIP3 rabbit mAb | HA722183
IHC-P staining with HT-29 (positive) and HeLa (negative) cells



Phospho-RIP3 (S232) rabbit mAb | HA721428



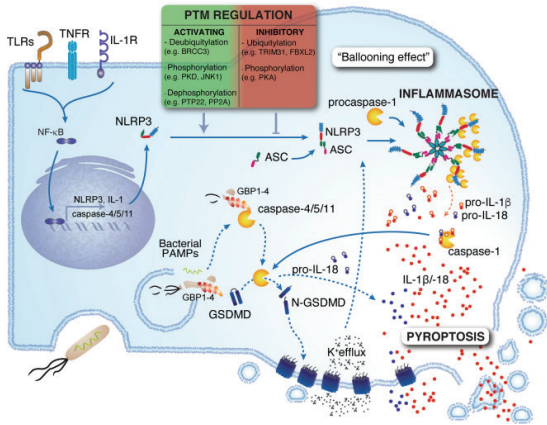
TRAF2 rabbit mAb | ET1612-5

Necroptosis			
Product name	Catalog#	Reactivity	Tested applications
STAT5b	ET1612-63	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
STAT 5A+B	ET1701-45	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
Phospho-STAT5 (Y694)	ET1610-48	H,R,Ms	WB,IHC-P,IF-Cell
STAT6	ET1605-49	H,Ms,R	WB,IF-Cell,IHC-P,IP,FC,IF-Tissue
Phospho-STAT6 (Y641)	HA722776	H,Ms	WB
TAK1	ET1705-14	H,Ms,R,Mk	WB
TMS1	ET1611-62	H	WB,IF-Cell,IF-Tissue,IHC-P,FC
TNF alpha	HA722022	H,Ms	WB
TNFAIP3	ET1611-40	H	WB,IF-Cell,IF-Tissue,IHC-P,FC
TNFRSF14	HA722501	H	WB,IF-Cell,FC
TRADD	HA722000	H,Ms,R	WB,IF-Cell
TRAF2	ET1612-5	H,Ms,R	WB,IF-Tissue,IHC-P,IP
TRIF	HA722268	H	WB
TRPM7	HA721501	H,Ms,R	WB,FC
USP21	EM1901-37	H,Ms,R	WB,IF-Cell,IHC-P,FC
VDAC1	ET1601-20	H,Ms,R	WB,IF-Cell,IHC-P,FC,IF-Tissue
VPS24	HA722540	H,Ms,R	WB
XIAP	HA722113	H,Ms,R,Mk	WB,IHC-P

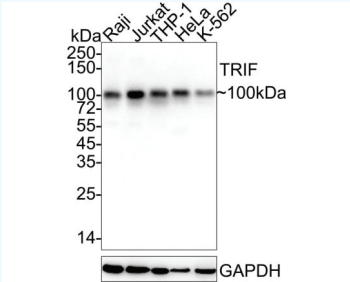
*H: Human; Ms: Mouse; R: Rat; Mk: Monkey; Z: Zebrafish; G: Goat; Cw: Cow

细胞焦亡

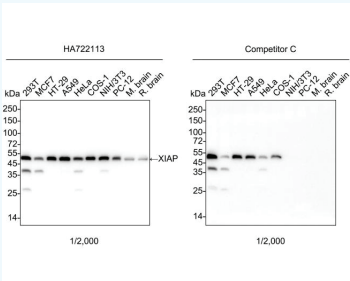
细胞焦亡是一种因微生物感染引起的炎性半胱天冬酶依赖型程序性细胞坏死，在机体的先天性防御过程中发挥关键性作用。细胞焦亡有两条机制，分别是依赖Caspase-1的经典机制和依赖Caspase-4/5/11的非经典机制。



PMID: 33785842



TRIF rabbit mAb | HA722268



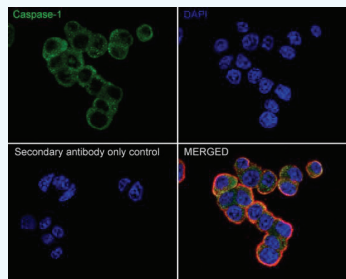
XIAP rabbit mAb | HA722113



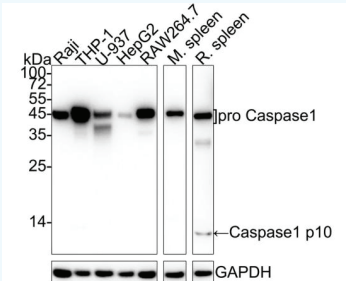
扫码了解更多
“坏死性细胞凋亡研究” 产品信息

优质抗体推荐

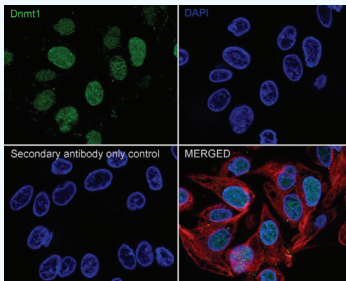
Pyroptosis			
Product name	Catalog#	Reactivity	Tested applications
Annexin A1	HA722094	H	IHC-P
ATG5	ET1611-38	H,Ms,R,Mk	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
Bak	ET1608-21	H	WB,IF-Tissue,IHC-P,IP
Beta III Tubulin	ET1604-17	H,Ms,R	WB,IHC-P,IP,FC,IHC-Fr,IF-Cell
Beta III Tubulin	M0805-8	H,Ms,R	WB,IF-Cell,IHC-P,FC,IF-Tissue
Carbonic anhydrase 9	ET1701-51	H	WB,IHC-P,IF-Tissue,mIHC
Caspase-1	ET1608-69	H,Ms,R	WB,FC,IF-Cell
Caspase-1 + p10 + p12	HA722222	H,Ms,R	WB,IF-Cell,IHC-P
Caspase-3	ET1602-39	H	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
Caspase-3 p12	HA722235	H,Ms,R	WB,IHC-P
Active Caspase-3	ET1602-47	H,P	WB,IF-Cell,IF-Tissue,IHC-P
active+pro Caspase-3	ET1608-64	H,Ms,R	WB,IHC-P,IP
pro Caspase-3	ET1603-26	H,Ms	WB,IF-Tissue,IHC-P
Caspase-5	ET1612-29	H	WB,IF-Cell,IF-Tissue,IHC-P,IP
pro Caspase-7	ET1612-28	H	WB,IF-Cell,IF-Tissue,IHC-P
Caspase-8	ET1603-16	H	WB,IF-Tissue,IHC-P
Caspase-8	HA722181	H	WB,IF-Cell,IHC-P,FC,IP
Caspase-9	ET1603-27	H,Ms	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
Active+Pro Caspase-9	ET1610-95	H,Ms	WB,IP
Active+Pro Caspase-9	ET1701-22	H	WB,IHC-P,FC
Cdk9	ET1612-78	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
PARP1	ET1608-56	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC
Cleaved PARP	ET1608-10	H	WB,IF-Cell,IP
COX2/Cyclooxygenase 2	ET1610-23	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P
DFNA5 / GSDME	EM1901-48	H	WB,IF-Cell,IHC-P,FC
DNMT1	EM1901-83	H,Ms,R	WB,IHC-P,IF-Cell
DNMT1	ET1702-77	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P
PDIA3 / Erp57	ET1703-68	H	WB,IP,IHC-P
FOXO3A	ET1604-11	H,Ms,R	WB,IF-Cell,IF-Tissue
Phospho-FOXO3a (S253)	ET1609-49	H,Ms,R	WB,IHC-P,IF-Cell,FC
GSDMD	HA601046	H,Ms	WB



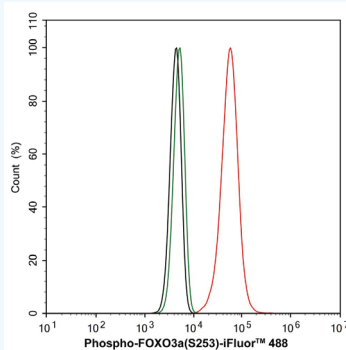
Caspase-1 rabbit mAb | ET1608-69
IF-Cell staining with PC-12 cells



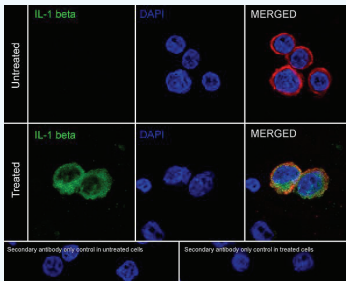
Caspase-1 + p10 + p12 rabbit mAb | HA722222



Dnm1 rabbit mAb | ET1702-77
IF-Cell staining with HepG2 cells

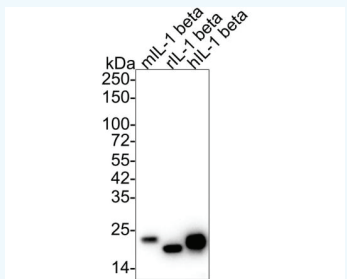


Phospho-FOXO3a (S253)
rabbit mAb | ET1609-49
FC analysis with NIH/3T3 cells

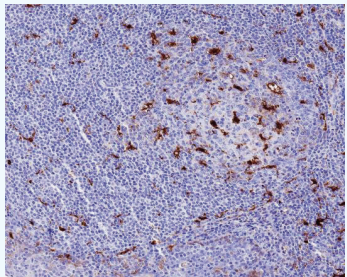


IL-1 beta rabbit mAb | ET1701-39
IF-Cell staining with THP-1 cells
treated with or without TPA

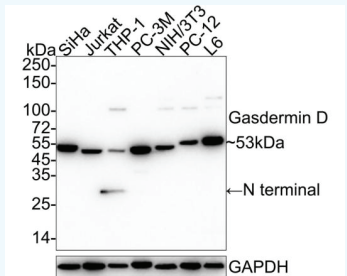
Pyroptosis			
Product name	Catalog#	Reactivity	Tested applications
GSK3 beta	ET1607-71	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC,IHC-Fr
Phospho-GSK3 (alpha + beta) (Y216 + Y279)	ET1607-54	H,Ms,R	WB,IF-Cell,IHC-P,IP,IF-Tissue,FC
Phospho-GSK3 beta (S9)	ET1607-60	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC
HDAC2	ET1607-78	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
HMGB1	ET1601-2	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC
Human TNF alpha	IRS040	H	mIHC
IKB alpha	ET1603-6	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
Phospho-IKB alpha (S32)	ET1609-78	H,Ms	WB,IF-Cell,IP
Phospho-IKB alpha (S32/S36)	HA722770	H,Ms,R	WB,IHC-P,IF-Cell
IKBKE	ET1706-20	H	WB,IF-Cell,FC,IHC-P
IL-1 beta	ET1701-39	H	WB,IF-Cell,IF-Tissue,IHC-P,FC
IL-1 beta	HA601002	H,Ms,R	WB,ELISA,IF-Cell
IL-18	HA721536	H	WB,IHC-P
IL-18	HA721537	H	WB,FC
IL-6	EM1701-45	Ms,R	WB,IF-Cell
IL-6	M1303-3	Ms	WB,IF-Cell,FC,ELISA
IP10	ET1704-27	H	WB,IF-Cell,IF-Tissue,IHC-P
KLF4	ET1702-71	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P
MCL1	ET1606-14	H,Ms,R	WB,IF-Tissue,IHC-P,IP
METTL3	HA720002	H,Ms,R	WB,IHC-P,IF-Cell
MMP-3	ET1705-98	H,Ms,R	WB,IHC-P
Mre11	ET1703-99	H,Ms,R	WB,IHC-P
mtTFA	ET1705-64	H	WB,IF-Cell,IF-Tissue,IHC-P,IP
MUC1	ET1611-14	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC,IP
MAP2	HA723025	H,Ms,R	WB,IHC-P,IHC-Fr,IF-Cell
Phospho-MAP2 (S136)	HA722351	Ms,R	WB,IHC-P,IHC-Fr,IF-Tissue
NeuN	ET1602-12	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC,IHC-Fr,mIHC
NeuN	HA601111	H,Ms,R	WB,IF-Tissue,IHC-P,IHC-Fr
NF-L	HA721538	H,Ms,R	WB,IHC-P,IF-Cell,IF-Tissue,IHC-Fr
NLRP3	ET1610-93	H,Ms,R	WB,IF-Cell,IHC-P,FC
Nrf2	HA721432	H,Ms	WB,IF-Cell
Phospho-Nrf2 (S40)	ET1608-28	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC,IP



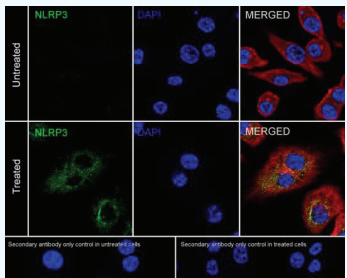
IL-1 beta mouse mAb | HA601036



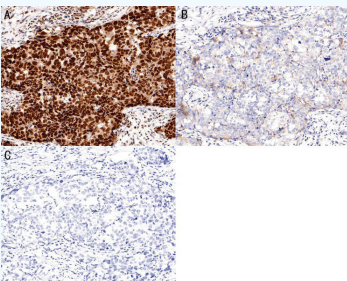
IL-18 rabbit mAb | HA721536
IHC-P staining with human tonsil tissue



Gasdermin D (N terminal)
rabbit mAb | HA721144

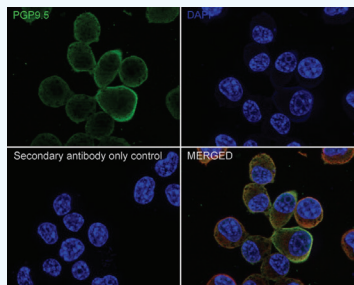


NLRP3 rabbit mAb | ET1610-93
IF-Cell staining with RAW264.7 cells

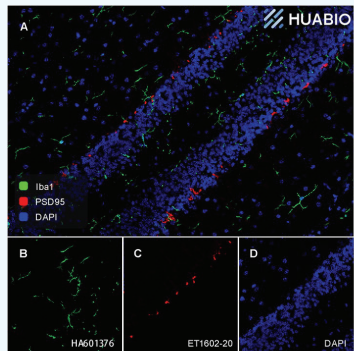


Phospho-Nrf2 (S40) rabbit mAb | ET1608-28
IHC-P staining with
human breast carcinoma tissue
The section were untreated (A, C)
and treated (B) with A-PPase

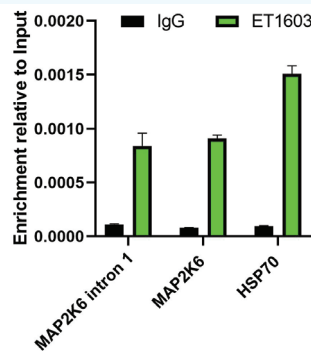
Pyroptosis			
Product name	Catalog#	Reactivity	Tested applications
PDIA3 / ERp57	HA723031	H,Ms,R	WB,IHC-P,FC,IF-Cell
PD-L1	ET1701-41	H	WB,IHC-P
PFKFB3	ET1705-66	H,Ms,R	WB,IF-Cell,IHC-P,FC,IP,IF-Tissue
PGP9.5	ET1703-22	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC,IHC-Fr
PINK1	HA723021	H,Ms,R	WB,IHC-P,IHC-Fr
PSD95	ET1602-20	H,Ms,R	WB,IF-Tissue,IHC-P,IP,IHC-Fr
PTEN	ET1606-43	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P
Phospho-PTEN (S380)	ET1701-46	H,Ms,R	WB,IF-Cell
RANTES	ET1705-70	H,Ms	WB,IHC-P,IF-Cell,IF-Tissue
S100A4	ET1612-13	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
SDHB	ET1706-30	H,Ms,R	WB,IHC-P
SET7	HA721909	H,Ms,R,Mk	WB,IF-Cell,FC
SGK1	ET1610-19	H,Ms,R	WB,IHC-P,IP,FC,IF-Tissue
SHIP	ET1605-30	H	WB,IHC-P,IP,FC
Phospho-SHIP (Y1020)	ET1701-5	H	WB,IF-Cell,IP
SIRT1	ET1603-3	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,ChIP
Phospho-SIRT1 (S47)	ET1611-31	H	WB,IF-Cell,IHC-P
Phospho-SIRT1 (T530)	ET1701-27	H	WB,IF-Cell,IF-Tissue,IHC-P,FC
SIRT3	HA722251	H,Ms,R	WB,IHC-P,IF-Cell,FC,IF-Tissue,IP,ChIP
Smad2	ET1604-22	H,Ms,R	WB,IF-Cell,IHC-P,IP,FC
Phospho-Smad2 (S250)	ET1612-32	H,Ms,R	WB,FC,IP
Phospho-Smad2 (S255)	ET1702-34	H,Ms,R	WB,IHC-P,IP
Phospho-Smad2 (S465+467)	HA722443	H,Ms,R	WB,IF-Cell,IHC-P
STING	HA722832	H,Ms,R	WB,IF-Cell,IHC-P,FC,IF-Tissue,IP
Phospho-STING (S366)	HA723137	H	WB,Dot Blot,IP
Synaptophysin	ET1606-56	H,Ms,R	WB,IHC-P,IHC-Fr,IF-Tissue
TLR2	ET1705-92	H,Ms,R	WB,FC,IF-Cell
TMS1	ET1611-62	H	WB,IF-Cell,IF-Tissue,IHC-P,FC
TNF alpha	HA722022	H,Ms	WB
TOMM20	ET1609-25	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
VEGF	ET1604-28	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
Vimentin	EM0401	H,Ms,R	WB,IF-Cell,IHC-P,FC,IF-Tissue,IHC-Fr,IP



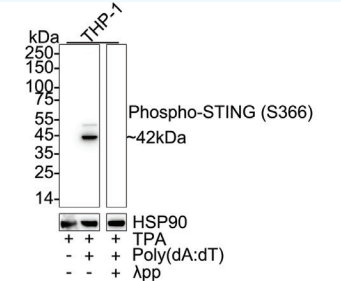
PGP9.5 rabbit mAb | ET1703-22
IF-Cell staining with Neuro-2a cells



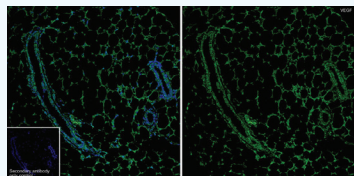
PSD95 rabbit mAb | ET1602-20
IHC-Fr staining with mouse cerebellum tissue



SIRT1 rabbit mAb | ET1603-3
ChIP analysis with cross-linked chromatin from HeLa cells



Phospho-STING (S366) rabbit mAb | HA723137



VEGF rabbit mAb | ET1604-28
IF-Tissue staining with mouse adipose tissue

Pyroptosis			
Product name	Catalog#	Reactivity	Tested applications
Vimentin	ET1610-39	H,Ms,R,Cmk,P	WB,IHC-P,IHC-Fr,IF-Tissue,IF-Cell,FC,IP
Phospho-Vimentin (S39)	HA721442	H,Ms,R	WB,IF-Cell
XBP1	ET1703-23	H,Ms	WB,IHC-P,IF-Cell,IF-Tissue,FC

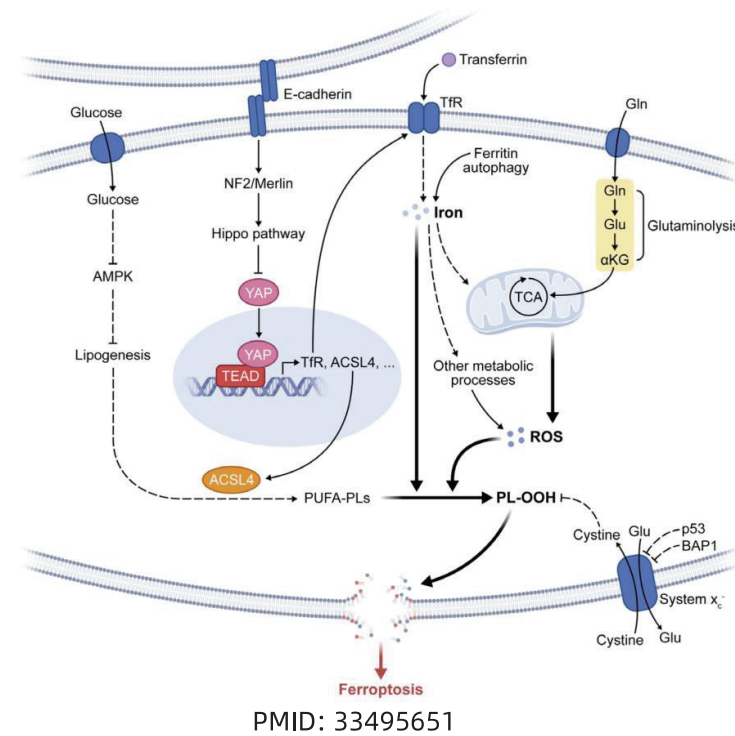
*H: Human; Ms: Mouse; R: Rat; Cmk: Cynomolgus monkey; Mk: Monkey; P: Pig



扫码了解更多
“细胞焦亡研究”产品信息

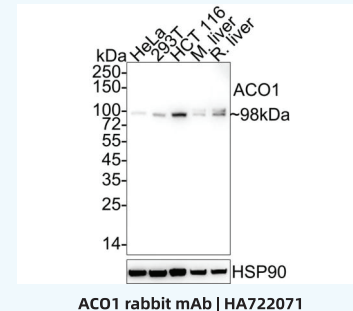
铁死亡

铁死亡是一种依赖于铁离子的程序性细胞死亡形式，主要是由铁依赖型脂质活性氧（ROS）的生成导致细胞死亡。其中，谷胱甘肽过氧化物酶4（GPX4）是唯一能够还原生物膜内脂质氢过氧化物的酶。

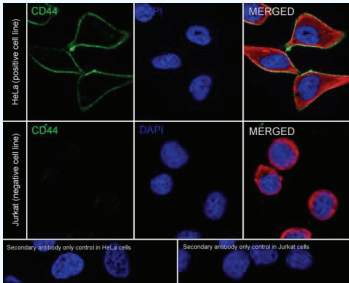
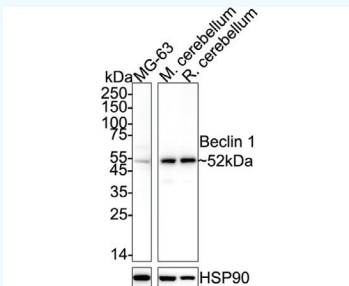


优质抗体推荐

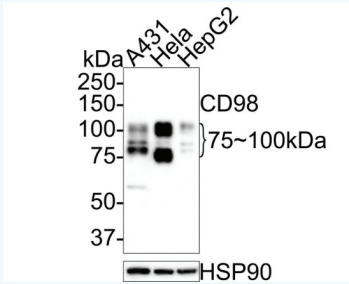
Ferroptosis			
Product name	Catalog#	Reactivity	Tested applications
Acetyl CoA Carboxylase 1 (ACC1)	ET1609-77	H,Ms,R	WB,IHC-P
Phospho-Acetyl Coenzyme A Carboxylase (S79)	HA722801	H,Ms,R	WB,IF-Cell,IHC-P
ACO1	HA722071	H,Ms,R	WB,FC
ACSL1	HA601112	H,Ms,R	WB,IHC-P



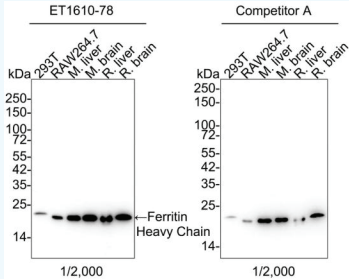
Ferroptosis			
Product name	Catalog#	Reactivity	Tested applications
ACSL3	HA601070	H	WB,IHC-P
ACSL4/FACL4	ET7111-43	H,Ms,R	WB,IHC-P
ACSL5	HA601166	H,Ms,R	WB,IHC-P
ATG4B	HA721829	H,Ms,R,Mk	WB
ATG5	ET1611-38	H,Ms,R,Mk	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
ATG7	ET1610-53	H,R	WB,IF-Tissue,IHC-P,IP,FC
Beclin 1	HA721216	H,Ms,R	WB,IHC-P,IF-Cell
CARS	ET7111-18	H	WB,IHC-P
CBS	ET7109-21	H	WB,IF-Cell
CD26	ET1703-93	H,Ms,R	WB
CD44	HA722845	H,Ms,R	WB,IF-Cell,IHC-P,IF-Tissue,FC
CD98	HA601125	H	WB,IHC-P
Ceruloplasmin	HA721431	R,H	WB
Citrate synthetase	ET1706-40	H,Ms,R	WB,IHC-P,FC
COX2/Cyclooxygenase 2	ET1610-23	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P
Cytochrome P450 Reductase	ET7107-35	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC
DMT1	HA723078	H	WB,IHC-P,FC
FANCD2	ET1611-67	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P
Ferritin Heavy Chain	ET1610-78	H,Ms,Z,R	WB,IF-Cell,IF-Tissue,IHC-P,FC
GCLC	ET1704-38	H,R	WB,IHC-P,FC
GCLM	ET1705-87	H,Ms,R	WB,IF-Tissue,IHC-P,IP,IHC-Fr
Glutathione Reductase	HA721989	H,Ms,R	WB
Glutathione Synthetase	ET7107-62	H,Ms,R	WB,IHC-P
GPX4	ET1706-45	H,Ms,R,Z,P,Cmk	WB,IHC-P,IF-Cell,FC
GRP78 / BIP	HA601076	H,Ms,R,Z	WB,IHC-P,IF-Cell
GRP78 / BIP	M1505-13	H,Ms,R,Z	WB,IF-Cell,IHC-P,IF-Tissue,FC
Heme Oxygenase 1 (HO-1)	ET1604-45	H	WB,IHC-P,IP,FC,IF-Tissue
Heme Oxygenase 1 (HO-1)	HA720169F	H	IF-Tissue
Heme Oxygenase 1 (HO-1)	HA721854	H,Ms	WB,IF-Cell,IHC-P
HMGB1	ET1601-2	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC
Hsp27	ET1701-70	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
Phospho-Hsp27 (S78)	ET1701-19	H	WB,IF-Cell,IF-Tissue,IHC-P,IP



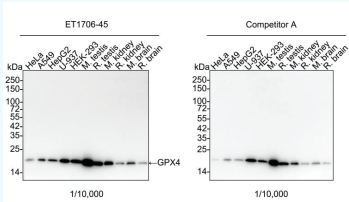
CD44 rabbit mAb | HA722845
IF-Cell staining with HeLa (positive) and Jurkat (negative) cells



CD98 mouse mAb | HA601125

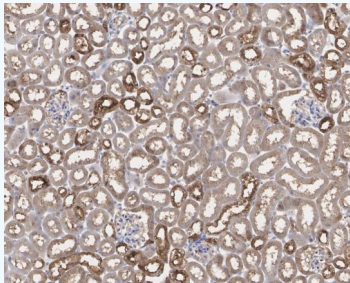


Ferritin Heavy Chain rabbit mAb | ET1610-78

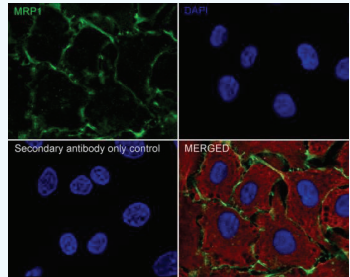


GPX4 rabbit mAb | ET1706-45

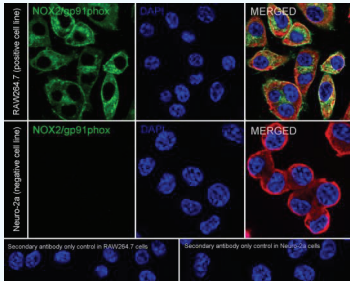
Ferroptosis			
Product name	Catalog#	Reactivity	Tested applications
Phospho-Hsp27 (S82)	ET1611-16	H,Ms,R	WB,IP,IF-Cell,FC
Hsp90 alpha	ET1605-57	H,Ms,R,Mk	WB,IF-Cell,IF-Tissue,IHC-P
Hsp90 beta	ET1605-56	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
Integrin beta 4	ET1703-52	H,Ms,R	WB,IHC-P
Keap1	HA721525	H,Ms,R	WB,IHC-P,FC
LC3B	ET1701-65	H,Ms,R	WB,IF-Cell,IHC-P,IF-Tissue,IP,mIHC
LPCAT3	HA723171	H,Mk	WB,IF-Cell
MAP1LC3A	ET1609-26	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC,IP
MRP1	ET1704-56	H	WB,IHC-P,FC,IF-Cell
MUC1	ET1611-14	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC,IP
NCOA4	HA722282	H	WB
NCOA4	HA722283	H,Ms,R	IHC-P,IF-Tissue
NOX2 / gp91phox	HA723224	H,Ms,R	WB,IF-Cell,IHC-P,IHC-Fr,IP
NADPH oxidase 4/NOX4	ET1607-4	H,R,Ms	WB,IF-Cell,IHC-P,IP,FC
NQO1	ET1702-50	H,Ms,R	WB,IP,FC,IHC-P
Nrf2	HA721432	H,Ms	WB,IF-Cell
Phospho-Nrf2 (S40)	ET1608-28	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC,IP
p53	ET1601-13	H	WB,IF-Cell,ChIP
p53	ET7107-33	H	WB,IHC-P,FC,IP,IF-Cell,IF-Tissue
p53	HA601315	H,Ms,Mk	WB,IF-Cell
Phospho-p53 (S15)	HA721756	H	WB,IF-Cell
Phospho-p53 (S20)	HA722761	H	WB
Phospho-p53 (S33)	HA722703	H,Ms,R	WB,IF-Cell,IHC-P
Phospho-p53 (S376)	ET1609-14	H,Ms	WB
Phospho-p53 (S392)	ET1606-24	H,Ms,R	WB,IHC-P,IP
Phospho-p53 (T55)	ET1609-13	H	WB,IHC-P
p53 (acetyl K370)	ET1602-38	H,Ms,R	WB,IF-Cell,IF-Tissue,IP,FC
p53 (acetyl K382)	HA722763	H	WB,IF-Cell
PBP	ET1610-18	H,Ms,R,Z	WB,IF-Cell,IF-Tissue,IHC-P,IP
PCBP1	HA600019	H,Ms	WB,IHC-P
PCBP2	HA721109	H,Ms	WB,IHC-P
PHGDH	HA601349	H,Ms,R	WB,IF-Cell,IHC-P



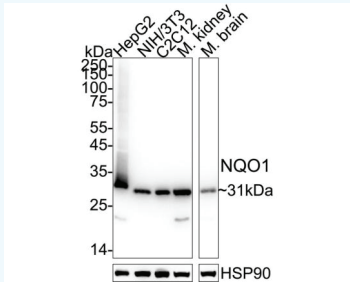
Keap1 rabbit mAb | HA721525
IHC-P staining with mouse kidney tissue



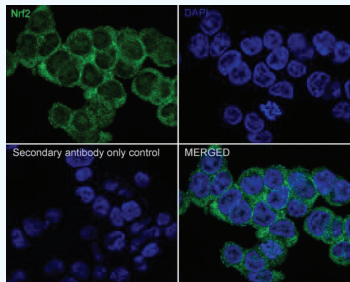
MRP1 rabbit mAb | ET1704-56
IF-Cell staining with A549 cells



NOX2 rabbit mAb | HA723224
IF-Cell staining with RAW264.7 (positive) and Neuro-2a (negative) cells



NQO1 rabbit mAb | ET1702-50



Nrf2 rabbit mAb | HA721432
IF-Cell staining with HCT 116 cells

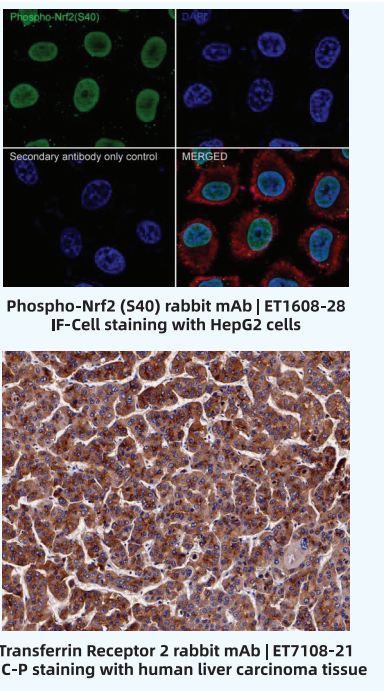
Ferroptosis			
Product name	Catalog#	Reactivity	Tested applications
Prion Protein (PrP)	ET1610-27	H,Ms,R	WB,IF-Tissue,IHC-P
S100A4	ET1612-13	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
SLC1A5	HA722890	H,Ms	WB,IF-Cell,IHC-P,FC,IF-Tissue
SLC39A8	HA601161	H,Ms,R	WB
SLC40A1	HA601178	H	WB
Transferrin Receptor (CD71)	ET1702-06	H,Ms,R	WB,IP,FC
Transferrin Receptor 2	ET7108-21	H	WB,IHC-P
TRF1	HA721505	H,Ms	WB
TRF2	HA721297	H	WB,IHC-P,IF-Cell
TXNRD1	ET1704-81	H,Ms,R	WB,IF-Cell,IHC-P,IP,FC
VDAC1	ET1601-20	H,Ms,R	WB,IF-Cell,IHC-P,FC,IF-Tissue
xCT/SLC7A11	HA600097	H,Ms	WB,IHC-P,FC
xCT/SLC7A11	HA600098	H,Ms	WB,IF-Cell,IHC-P,FC
xCT/SLC7A11	HA601071	H,Ms	WB,IHC-P,IF-Cell,FC
xCT/SLC7A11	HA721868	H,Ms,R	WB,IP

*H: Human; Ms: Mouse; R: Rat; Mk: Monkey; Z: Zebrafish; Cmk: Cynomolgus monkey; P: Pig

铁死亡优质抗体小包装推荐

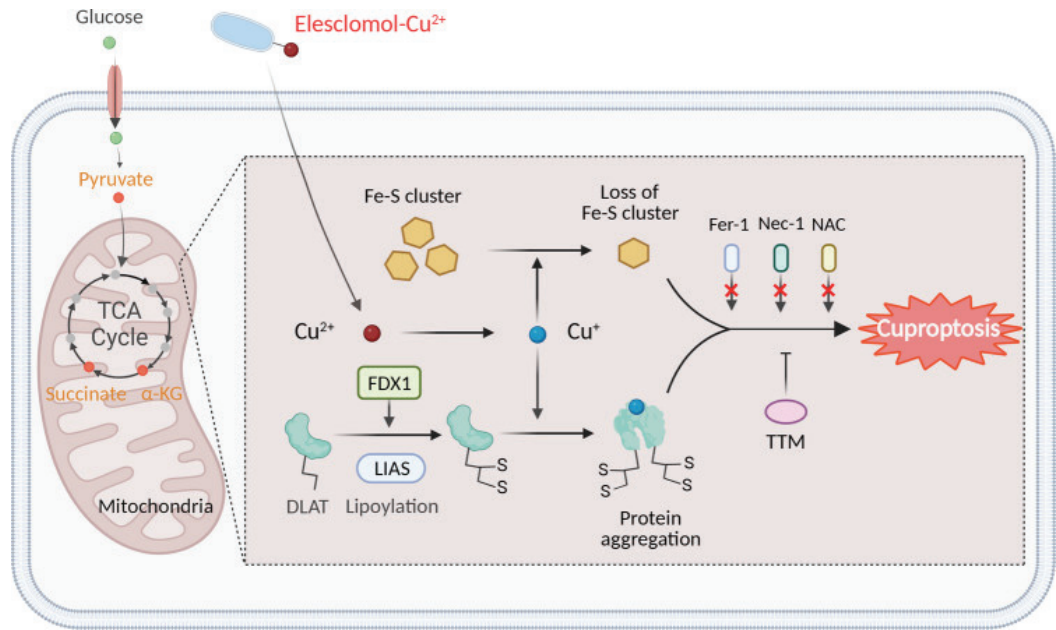
Ferroptosis Antibody Sampler Kit | HAK21028

Product Includes	Catalog#	Quantity	Reactivity	Tested applications
GPX4	ET1706-45	20μl	Human,Mouse,Rat,Zebrafish	WB,IHC-P,IF-Cell,FC
NCOA4	HA722283	20μl	Human,Mouse,Rat	IHC-P,IF-Tissue
Keap1	HA721525	20μl	Human,Mouse,Rat	WB,IHC-P,FC
Nrf2	HA721432	20μl	Human,Mouse	WB,IF-Cell
CD98	HA601124	20μl	Human	WB,IHC-P
xCT/SLC7A11	HA721868	20μl	Human,Mouse,Rat	WB,IP
DMT1	ER1907-55	20μl	Human,Mouse,Rat,Cow	WB,ELISA,IHC-P,IF
Ferritin Heavy Chain	ET1705-55	20μl	Human	IHC-P
Goat Anti-Rabbit IgG (H+L)	HA1001	100μl	Rabbit	WB,ELISA,IHC-P
Goat Anti-Mouse IgG (H+L)	HA1006	100μl	Mouse	WB,ELISA,IHC-P



扫码了解更多
“铁死亡研究”产品信息

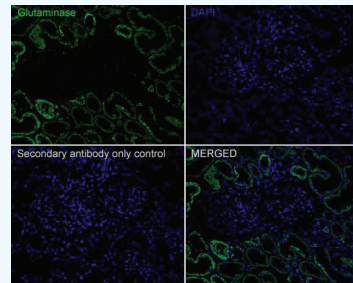
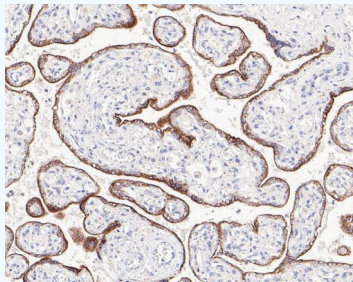
铜死亡是一种通过铜与三羧酸循环（TCA）的脂酰化成分直接结合，导致脂酰化蛋白质聚集，和铁硫簇蛋白质丢失，进而引发蛋白质毒性应激，并最终致使细胞死亡。因此，有研究报道，铜离子载体可能是针对具有此类代谢特征的癌细胞的潜在治疗手段。



PMID: 36414625

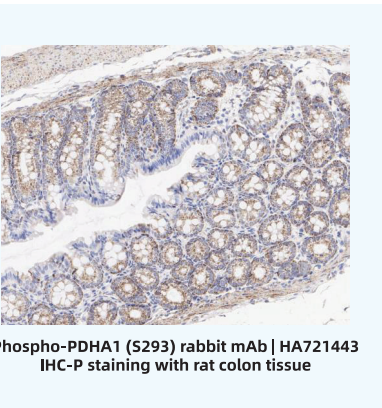
优质抗体推荐

Cuproptosis			
Product name	Catalog#	Reactivity	Tested applications
Aconitase 2	ET7109-15	H,Ms,R	WB,IF-Cell,IHC-P,IP,IF-Tissue
ADX	HA721329	H,Ms,R	WB,IHC-P,IF-Cell
ATOX1	HA722996	H	WB,IF-Cell,IHC-P,FC
CCS	HA723112	H,Ms,R	WB,IHC-P,IP
DLST	HA723176	H,Ms,R,Mk	WB,IF-Cell,IHC-P
Glutaminase	ET1611-5	H,R,Ms	WB,IF-Cell,IF-Tissue,IHC-P,FC
Hexokinase 1	ET1609-28	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
Hexokinase II	HA722933	H,Ms,R,Mk	WB,IHC-P,IF-Cell,FC,IP
Lactate Dehydrogenase	ET1608-57	H,Ms,R,Z	WB,IF-Cell,IF-Tissue,IHC-P,FC,IP
LDHA	M1007-7	H,Ms	IHC-P
LDHD	ET7110-30	H,Ms,R	WB,IF-Cell,IHC-P
LIAS	HA722085	H,Ms,R	WB,IF-Cell
Lipoamide Dehydrogenase	HA721512	H,Ms	WB,IHC-P,IF-Cell



Cuproptosis			
Product name	Catalog#	Reactivity	Tested applications
MTF1	HA722658	H	WB,IF-Cell,IHC-P,FC
p16INK4a	ET1608-62	H	WB,IF-Cell,IF-Tissue,IHC-P,FC,IP
PDHA1	ET1702-75	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
Phospho-PDHA1 (S293)	HA721443	H,Ms,R	WB,ICC,IHC-P
PDHB	ET1705-57	H,Ms,R	WB,IHC-P,FC,IP
PKM1	HA722120	H,Ms,R	WB,IF-Cell,IHC-P,FC
PKM1/2	HA722524	H,Ms,R	WB,IP
POLD1	HA721597	H,Ms,R	WB,IHC-P
Pyruvate Dehydrogenase E2	HA721267	H,Ms,R	WB,IHC-P,IF-Cell
SCO2	HA723166	H,Ms,R	WB,IHC-P,IF-Cell,IP
SLC31A1 / CTR1	HA720005	H,Ms,R	WB
Superoxide Dismutase 1	ET1702-36	H,Ms,R	WB,IF-Cell,IHC-P,FC

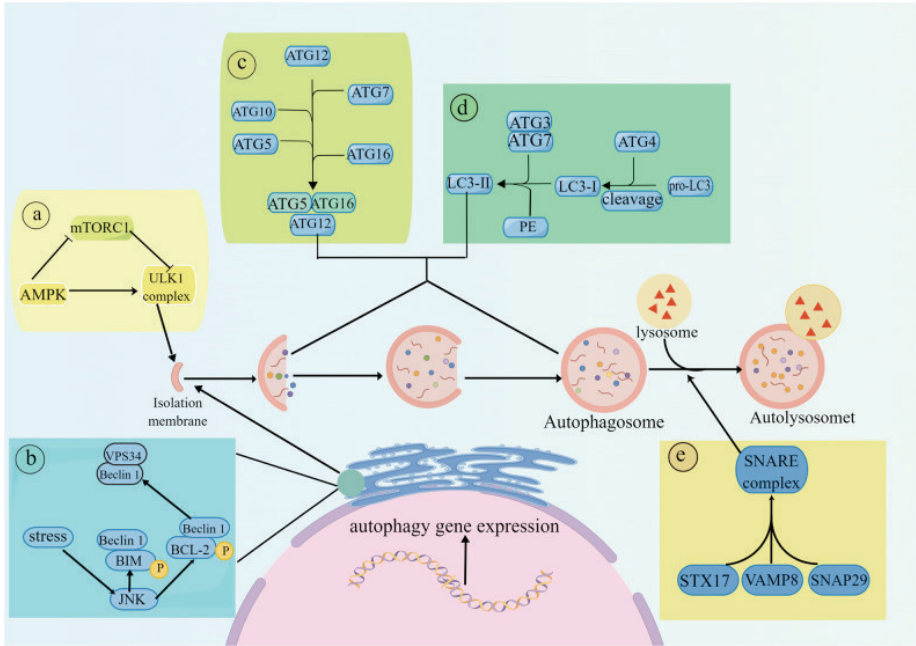
*H: Human; Ms: Mouse; R: Rat; Mk: Monkey; Z: Zebrafish



扫码了解更多
“铜死亡研究” 产品信息

细胞自噬

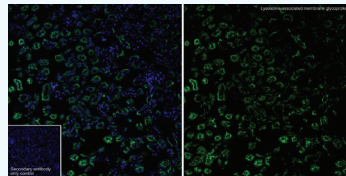
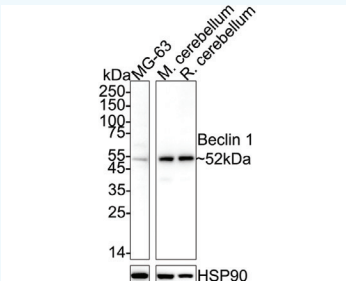
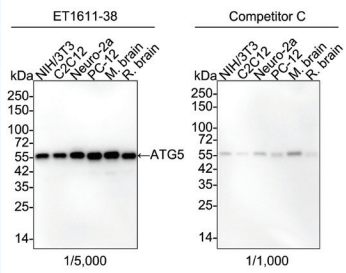
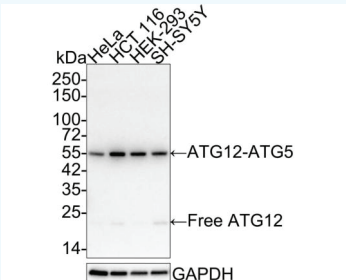
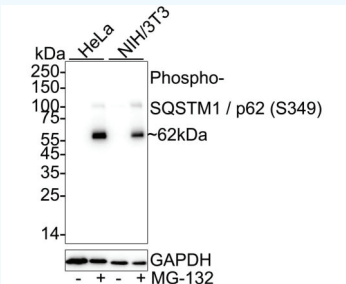
细胞自噬是指真核生物响应各种胁迫和刺激启动的一种进化上保守的细胞内降解系统，其在维持细胞、组织和生物体的平衡具有重要生物学意义。自噬期间，细胞将内部损坏、老化或功能丧失的细胞器分解，从而维持细胞的能量供应和代谢更新。



PMID: 37794028

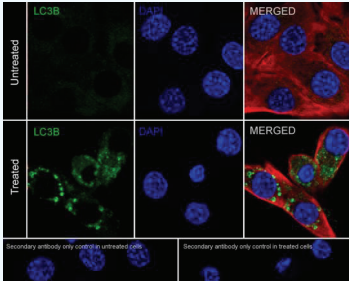
优质抗体推荐

Autophagy			
Product name	Catalog#	Reactivity	Tested applications
AMPK alpha 1	ET1608-40	H,Ms,R	WB,IF-Cell,IF-Tissue,FC,IP,IHC-Fr,IHC-P
Phospho-AMPK alpha 1 (S496)	ET1612-72	H,Ms	WB,IP,IHC-Fr
AMPK alpha 2	HA600078	H,Ms,R	WB,IF-Cell,IHC-P
Phospho-AMPK alpha 2 (S345)	ET1701-37	H,Ms,R	WB,IF-Tissue,IHC-P,FC
Phospho-AMPK alpha 2 (S491)	HA722567	H	WB
Apg3	ET1706-29	H,Ms,R	WB,IHC-P
ATG10	HA721444	H	WB
ATG12	HA721504	H	WB,IF-Cell,FC
ATG16L1	ET7106-65	H,Ms,R	WB,IHC-P
ATG4A	HA721010	H,Ms,R	WB,IHC-P,FC,IF-Cell
ATG4B	HA721829	H,Ms,R,Mk	WB
ATG4C	HA721948	H,Ms	WB,IF-Cell,IHC-P,FC
ATG5	ET1611-38	H,Ms,R,Mk	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
ATG7	ET1610-53	H,R	WB,IF-Tissue,IHC-P,IP,FC
ATG9A	ET1610-71	H,Ms,R	WB,IHC-P,IP
Beclin 1	HA721216	H,Ms,R	WB,IHC-P,IF-Cell
BNIP3	ET1704-08	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P
Cathepsin B	ET1704-03	H	WB,IF-Cell,IF-Tissue,IHC-P
Cathepsin D	ET1608-49	H,Ms,R	WB,IF-Cell,IHC-P,IP
Cathepsin H	HA721352	H	WB,IF-Cell
Cathepsin L	HA722063	H,Ms,R,Mk	WB,IHC-P,FC
Cathepsin L/V/K/H	ET1703-44	H,Ms,R	WB,IF-Tissue,IHC-P
Clathrin heavy chain	ET1704-50	H,Ms,R,Mk	WB,IHC-P
Cleaved PARP	ET1608-10	H	WB,IF-Cell,IP
Cleaved PARP1	HA722218	H,Ms,R,Mk	WB
DAP Kinase 1	EM1902-25	H,Ms,R	WB,IHC-P,IF-Cell
DDIT4	HA722161	H	WB
DPTOR	HA721225	H,Ms,R	WB,IHC-P
EEA1	M1503-1	H,Ms,R	WB,IHC-P
EIF2S1	HA722112	H,Ms,R,Mk	WB,IF-Cell,IHC-P,FC
Phospho-EIF2S1 (S51)	ET1603-14	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC

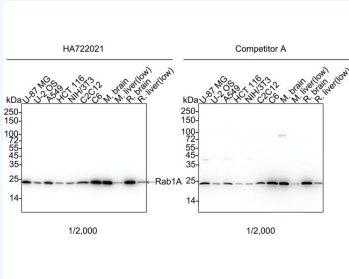


LAMP1 rabbit mAb | HA722827
IHC-Fr staining with mouse kidney tissue

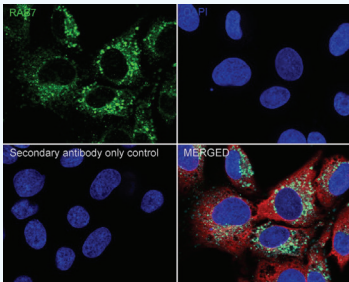
Autophagy			
Product name	Catalog#	Reactivity	Tested applications
FIP200	HA601106	H,R,Ms	WB,IHC-P,IF-Cell
GABARAP	ET1705-53	H,Ms,R	WB,IHC-P
GCN2	ET1704-68	H	WB,IF-Cell,IHC-P,FC
Phospho-GCN2 (T899)	HA722249	H,R	WB
HIF-1 alpha	HA721997	H,Ms,R	WB,IF-Cell,IHC-P
HMGB1	ET1601-2	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC
IP3 Receptor	ET1704-77	H,Ms,R	WB,IHC-P,IHC-Fr,IF-Tissue
IRE1	HA723225	H,Ms,R,Mk	WB
Phospho-IRE1 (S724)	HA721980	H,Ms	WB,IF-Cell,IHC-P,FC
IRS1	ET1612-45	H	WB,IF-Cell,IF-Tissue,IHC-P
LAMP1	HA722827	H,Ms,R	WB,IHC-P,IF-Tissue,IHC-Fr,IP
LAMP1	HA722302	Ms	WB,IF-Cell,IHC-P,FC,IP,IF-Tissue,IHC-Fr
LAMP2	HA601192	H	WB,IHC-P
LAMP2	M1603-5	H	WB,IHC-P,IF-Cell
LAMP2a	ET1601-24	H,Ms,R	WB,IHC-P,IP
LC3B	ET1701-65	H,Ms,R	WB,IF-Cell,IHC-P,IF-Tissue,IP,mIHC
MAP1LC3A	ET1609-26	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC,IP
Parkin	ET1702-60	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
Parkin	HA722952	H,Ms,R,Mk	WB,IHC-P,IF-Tissue,IF-Cell,FC,IP,IHC-Fr
PARP1	ET1608-56	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC
PDPK1	ET1612-27	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P
PICALM	HA721706	H,Ms,R	WB,IHC-P
PINK1	HA723021	H,Ms,R	WB,IHC-P,IHC-Fr
PP2A alpha + beta	ET1611-54	H,Ms,R,Z	WB,IF-Cell,IHC-P
Phospho-PP2A (Y307)	ET1609-40	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP
PRAS40	HA721581	H,Ms,R	WB,IHC-P,IF-Cell,FC
Phospho-PRAS40 (T246)	HA721790	H,Ms,R	WB
Presenilin 1 / PS-1	HA722995	H,Ms,R	IHC-P,IHC-Fr,IF-Tissue
PTEN	ET1606-43	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P
Phospho-PTEN (S380)	ET1701-46	H,Ms,R	WB,IF-Cell
Rab1A	HA722021	H,Ms,R	WB,IHC-P,IF-Cell,FC
RAB7	ET1611-96	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC



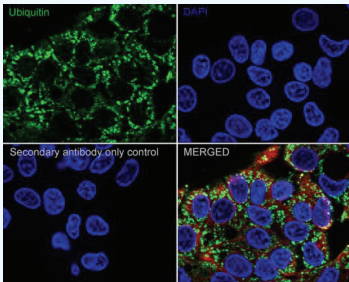
LC3B rabbit mAb | ET1701-65
IF-Cell staining with C2C12 cells



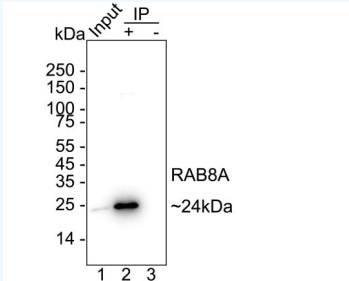
Rab1A rabbit mAb | HA722021



RAB7 rabbit mAb | ET1611-96
IF-Cell staining with C6 cells



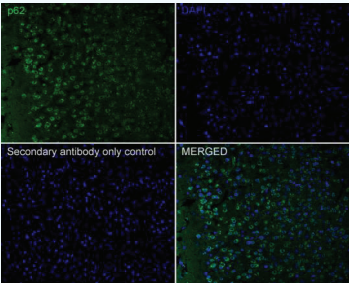
Ubiquitin rabbit mAb | ET1609-21
IF-Cell staining with HepG2 cells



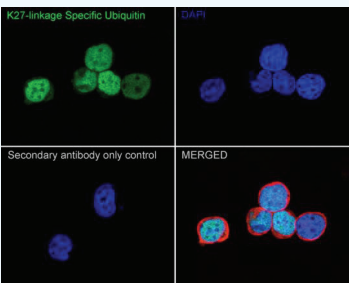
RAB8A rabbit mAb | HA721127
IP analysis on HeLa cell lysate

Autophagy			
Product name	Catalog#	Reactivity	Tested applications
RAB8A	HA721127	H,Ms,R	WB,FC,IF-Cell,IP
Raf1	ET1701-21	H,Ms,R	WB
Phospho-Raf1 (S259)	ET1612-87	H,Ms,R	WB,IHC-P,IF-Cell,FC
Phospho-Raf1 (S43)	ET1612-75	H,Ms,R	WB
Phospho-Raf1 (S621)	ET1701-3	H,R,Ms	WB,IHC-P
Raptor	HA722028	H,Ms,R	WB,IHC-P
RHEB	ET7108-44	H,Ms	WB,IF-Cell,IF-Tissue,IHC-P,FC
SNAP29	HA721728	H	WB
SQSTM1 / p62	HA721171	H,Ms,R	WB,IHC-P,IF-Cell,FC,IF-Tissue,IHC-Fr
Phospho-SQSTM1 / p62 (S349)	HA723050	H,Ms	WB,IF-Cell,IHC-P
TAX1BP1	HA721648	H,Ms,R	WB,IHC-P
TRAF6	HA722857	H,Ms,R	WB,IF-Cell,FC
Tuberin	ET1610-10	H,Ms,R	WB,IHC-P,FC
Phospho-Tuberin (S939)	HA721762	H,Ms	WB
Phospho-Tuberin (T1462)	HA721792	H,Ms,R	WB
Ubiquitin	ET1609-21	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC
K27-linkage Specific Ubiquitin	HA723066	H,Ms,R	WB,IHC-P,IF-Cell,FC,Dot Blot
K63-linkage Specific Ubiquitin	ET1703-07	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P
ULK1	ET1704-63	H,Ms,R	WB,IHC-P
Phospho-ULK1 (S556)	HA721445	H,Ms	WB
VAMP8	ET1702-10	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
VPS11	HA722447	H	WB
VPS18	HA722325	H,R	WB,IHC-P
VPS34	ET1607-74	H,Ms,R	IHC-P,FC
VPS34	HA723229	H,Ms,R	WB
WDR41	HA601116	H,R	WB,IHC-P,IF-Cell
ZIP Kinase	HA721777	H	WB

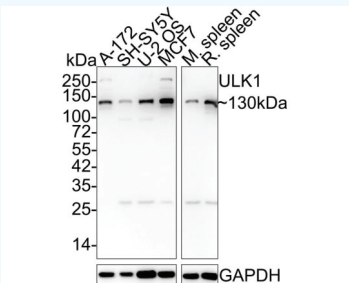
*H: Human; Ms: Mouse; R: Rat; Mk: Monkey; Z: Zebrafish



SQSTM1 / p62 rabbit mAb | HA721171
IHC-Fr staining with mouse brain tissue



K27-linkage Specific Ubiquitin
rabbit mAb | HA723066
IF-Cell staining with Jurkat cells



ULK1 rabbit mAb | ET1704-63



扫码了解更多
“细胞自噬研究” 产品信息

细胞自噬优质抗体小包装推荐

Catalog#	Product name	Product Includes	Catalog#	Reactivity	Tested applications
HAK21037	ER Stress Antibody Sampler Kit	GRP78 / BIP	HA601076	H,Ms,R	WB,IHC-P,IF-Cell
		Calnexin	ET1611-86	H	WB,IF-Cell,FC,IP
		ERO1L	HA722818	H,Ms,R	WB,IHC-P
		ERN1	ER1902-90	H,Ms,R	WB,IHC-P
		P4HB	ET7110-92	H,Ms,R	WB,IF-Cell,IHC-P,FC
		DDIT3	ET1703-05	H,Ms,R	WB,IHC-P,FC
		PERK	HA721510	H	WB
		Goat Anti-Rabbit IgG (H+L)	HA1001	Rb	WB,ELISA,IHC-P
HAK21029	ER Stress-induced Autophagy Antibody Sampler Kit	Goat Anti-Mouse IgG (H+L)	HA1006	Ms	WB,ELISA,IHC-P
		GRP78 / BIP	HA601076	H,Ms,R	WB,IHC-P,IF-Cell
		EIF2S1	HA722112	H,Ms,R,Mk	WB,IF-Cell,IHC-P,FC
		Phospho-EIF2S1 (S51)	ET1603-14	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
		ATG12	HA721504	H	WB,IF-Cell,FC
		Beclin 1	HA721216	H,Ms,R	WB,IHC-P,IF-Cell
		JNK1+JNK2+JNK3	ET1601-28	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP
		Phospho-JNK1/2/3 (T183 + T183 + T221)	ET1609-42	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC,IHC-Fr
HAK21114	Autophagy Essentials Antibody Sampler Kit	Goat Anti-Rabbit IgG (H+L)	HA1001	Rb	WB,ELISA,IHC-P
		Goat Anti-Mouse IgG (H+L)	HA1006	Ms	WB,ELISA,IHC-P
		Beclin 1	HA721216	H,Ms,R	WB,IHC-P,IF-Cell
		LC3B	ET1701-65	H,Ms,R	WB,IF-Cell,IHC-P,IF-Tissue,IP,mIHC
		SQSTM1 / p62	HA721171	H,Ms,R	WB,IHC-P,IF-Cell,FC,IF-Tissue,IHC-Fr
		ATG5	ET1611-38	H,Ms,R,Mk	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
		LAMP1	HA722827	H,Ms,R	WB,IHC-P,IF-Tissue,IHC-Fr
		Goat Anti-Rabbit IgG (H+L)	HA1001	Rb	WB,ELISA,IHC-P
K2002	Autophagy Antibody Sampler Kit	LC3B	ET1701-65	H,Ms,R	WB,IF-Cell,IHC-P,IF-Tissue,IP,mIHC
		ATG5	ET1611-38	H,Ms,R,Mk	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
		ATG12	HA721504	H	WB,IF-Cell,FC
		ATG16L1	ET7106-65	H,Ms,R	WB,IHC-P
		ATG7	ET1610-53	H,R	WB,IF-Tissue,IHC-P,IP,FC
		Apg3	ET1706-29	H,Ms,R	WB,IHC-P
		Beclin 1	HA721216	H,Ms,R	WB,IHC-P,IF-Cell
		Alpaca anti-Rabbit IgG Fc, Recombinant VHH	HA1031	Rb	IP,ELISA,IHC-P,WB

Catalog#	Product name	Product Includes	Catalog#	Reactivity	Tested applications
HAK21030	Autophagy Vesicle Elongation (LC3 Conjugation) Antibody Sampler Kit	MAP1LC3A	ET1609-26	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC
		LC3B	ET1701-65	H,Ms,R	WB,IF-Cell,IHC-P,IF-Tissue,IP,mIHC
		ATG7	ET1610-53	H,R	WB,IF-Tissue,IHC-P,IP,FC
		ATG4B	HA721829	H,Ms,R,Mk	WB
		ATG4A	HA721010	H,Ms,R	WB,IHC-P,FC,IF-Cell
		GABARAP	ET1705-53	H,Ms,R	WB,IHC-P,FC
		Apg3	ET1706-29	H,Ms,R	WB,IHC-P
		Goat Anti-Rabbit IgG (H+L)	HA1001	Rb	WB,ELISA,IHC-P
HAK21022	Autophagosome Marker Antibody Sampler Kit	ATG12	HA721504	H	WB,IF-Cell,FC
		MAP1LC3A	ET1611-37	H,Ms,R	WB,IF-Cell,IHC-P,IP
		LC3B	ET1701-65	H,Ms,R	WB,IF-Cell,IHC-P,IF-Tissue,IP,mIHC
		Goat Anti-Rabbit IgG (H+L)	HA1001	Rb	WB,ELISA,IHC-P

*H: Human; Ms: Mouse; R: Rat; Mk: Monkey; Rb: Rabbit

配对抗体

优质配对抗体推荐

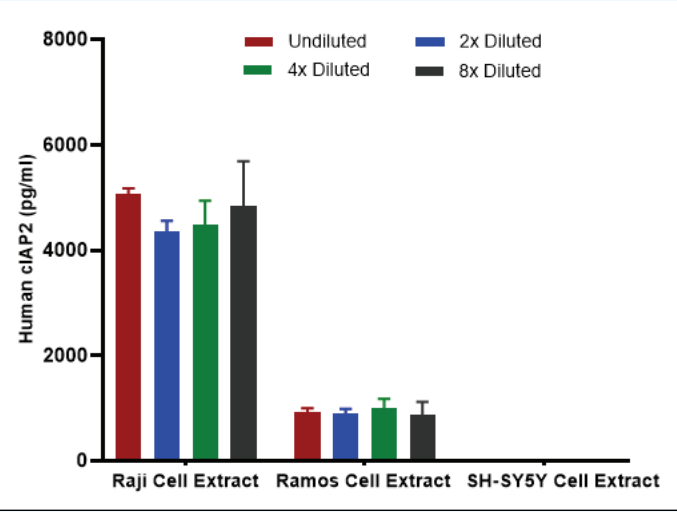
Product name	Catalog#	Tested applications	Antibody type
Human Beta Nerve Growth Factor	HA722902	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Human Beta Nerve Growth Factor	HA722903	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Human Beta Nerve Growth Factor	HA722904	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Human cIAP2	HA723098	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Human cIAP2	HA723099	ELISA(Det),ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Human cIAP2	HA723100	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Human Granzyme A	HA723092	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Human Granzyme A	HA723093	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Human Granzyme A	HA723095	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Human Granzyme A	HA723096	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Human IFN-alpha	HA721290	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Human IFN-alpha	HA721291	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Human IFNGR1	HA722679	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Human IFNGR1	HA722680	ELISA(Det)	Recombinant Rabbit monoclonal Antibody

Product name	Catalog#	Tested applications	Antibody type
Human IL-1 beta	HA721278	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Human IL-1 beta	HA721279	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Human IL-3	HA601153	ELISA(Cap)	Mouse monoclonal Antibody
Human IL-3	HA601154	ELISA(Cap)	Mouse monoclonal Antibody
Human IL-3	HA601155	ELISA(Det)	Mouse monoclonal Antibody
Human IL-6	HA721167	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Human IL-6	HA721168	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Human IL-6	HA721293	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Human IL-8	HA722098	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Human IL-8	HA722099	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Human IL-18	HA721722	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Human IL-18	HA721723	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Human IL-33	HA721935	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Human IL-33	HA721936	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Human Insulin	HA722096	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Human Insulin	HA722097	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Human Interferon gamma	HA721574	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Human Interferon gamma	HA721575	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Human Interferon gamma	HA721576	ELISA(Det),ELISA	Recombinant Rabbit monoclonal Antibody
Human Interferon gamma	HA721683	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Human Interferon gamma	HA721684	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Human Interferon gamma	HA721685	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Human MMP-3	HA722877	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Human MMP-3	HA722878	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Human NLRP3	HA723275	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Human NLRP3	HA723276	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Human NLRP3	HA723278	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Human sTNF RI	HA723158	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Human sTNF RI	HA723159	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Human TNF alpha	HA721265	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Human TNF alpha	HA721266	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Human TNF alpha	HA721294	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Human TNF alpha	HA721559	ELISA(Det)	Recombinant Rabbit monoclonal Antibody

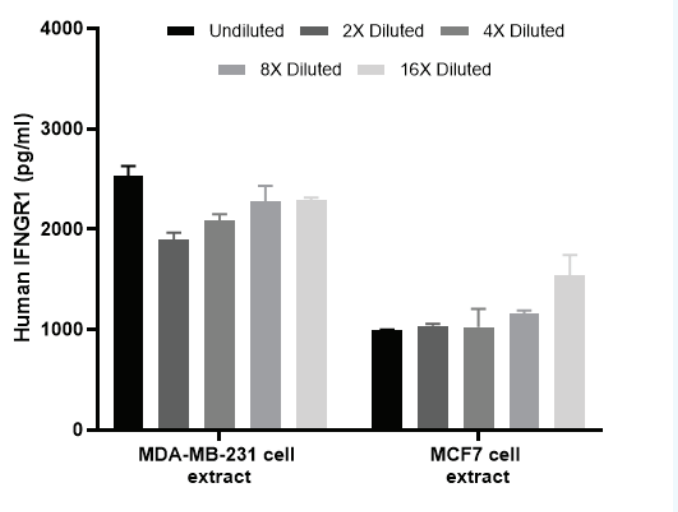
Product name	Catalog#	Tested applications	Antibody type
Human TRAIL	HA722943	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Human TRAIL	HA722944	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Mouse IFN beta	HA722172	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Mouse IFN beta	HA722173	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Mouse IL-1 beta	HA721976	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Mouse IL-1 beta	HA721977	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Mouse IL-1 beta	HA722166	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Mouse IL-1 beta	HA722167	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Mouse IL-6	HA721411	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Mouse IL-6	HA721412	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Mouse IL-6	HA721413	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Mouse IL-6	HA721600	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Mouse IL-6	HA721601	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Mouse IL-6	HA721602	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Mouse IL-33	HA722985	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Mouse IL-33	HA722986	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Mouse TNF alpha	HA722040	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Mouse TNF alpha	HA722041	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Mouse/Rat TNF alpha	HA721974	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Mouse/Rat TNF alpha	HA721975	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Rat IFN gamma	HA721618	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Rat IFN gamma	HA721619	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Rat IFN gamma	HA721620	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Rat IFN gamma	HA722421	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Rat IFN gamma	HA722422	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Rat IL-1 beta	HA721836	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Rat IL-1 beta	HA721837	ELISA(Det)	Recombinant Rabbit monoclonal Antibody
Rat TNF alpha	HA722170	ELISA(Cap)	Recombinant Rabbit monoclonal Antibody
Rat TNF alpha	HA722171	ELISA(Det)	Recombinant Rabbit monoclonal Antibody

扫码了解更多细胞死亡研究
“配对抗体” 产品信息

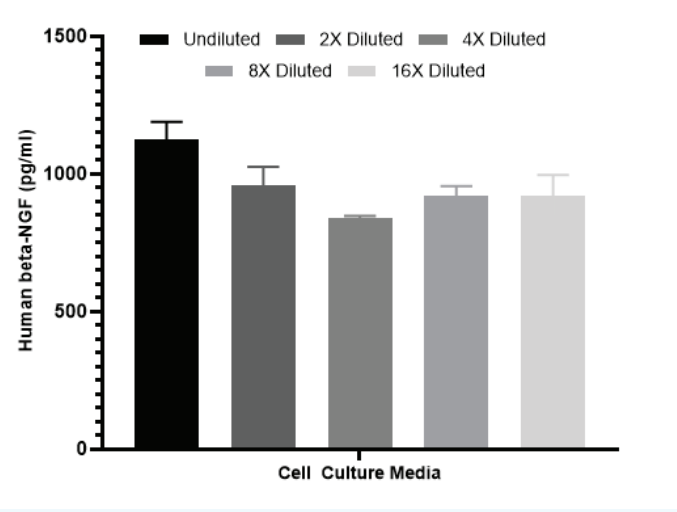




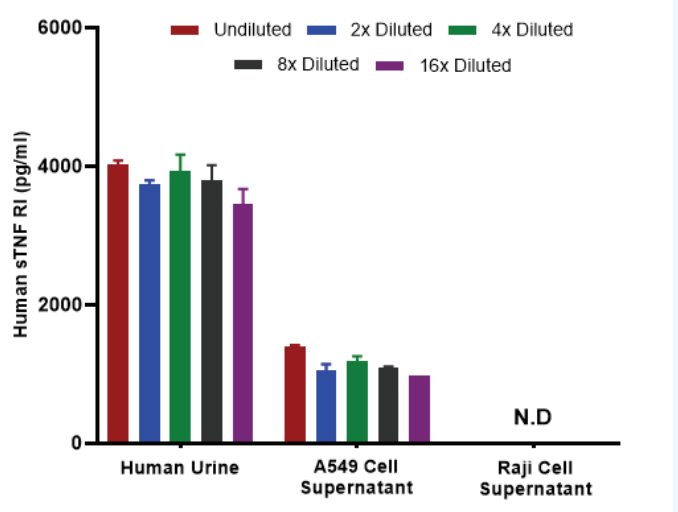
Sandwich ELISA analysis of various samples extracts using [human cIAP2 matched antibody pair](#) .
(Capture: HA723098; Detector: HA723099).



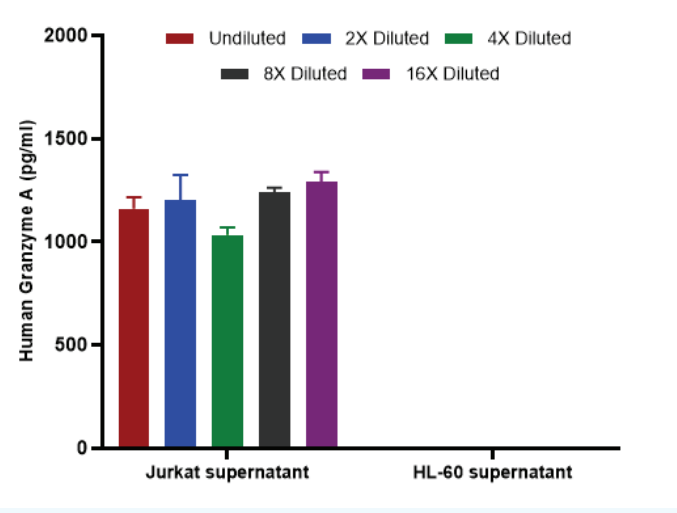
[human IFNGR1 matched anti-body pair](#) .



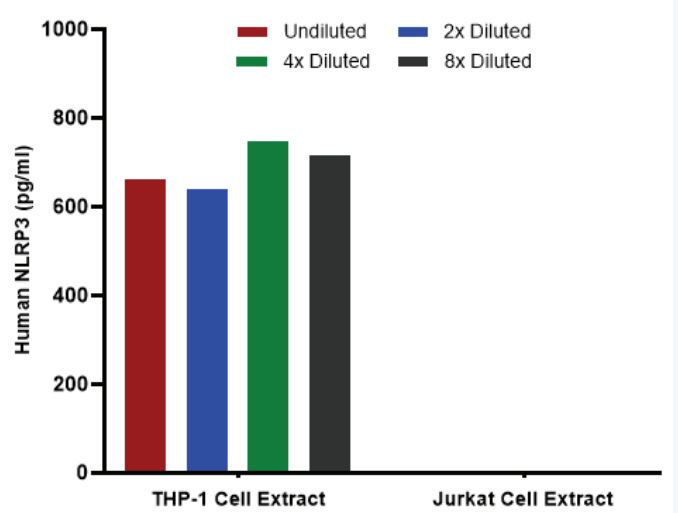
Sandwich ELISA analysis of various samples supernatant using [human beta-NGF matched antibody pair](#) .
(Capture: HA722902; Detector: HA722904).



Sandwich ELISA analysis of various samples supernatant using [human sTNF R1 matched antibody pair](#) .
(Capture: HA723158; Detector: HA723159).



Sandwich ELISA analysis of various samples supernatant using [human Granzyme A matched antibody pair](#) .
(Capture: HA723092; Detector: HA723093).



Sandwich ELISA analysis of various samples extracts using [human NLRP3 matched anti-body pair](#) .
(Capture: HA723275; Detector: HA723276).

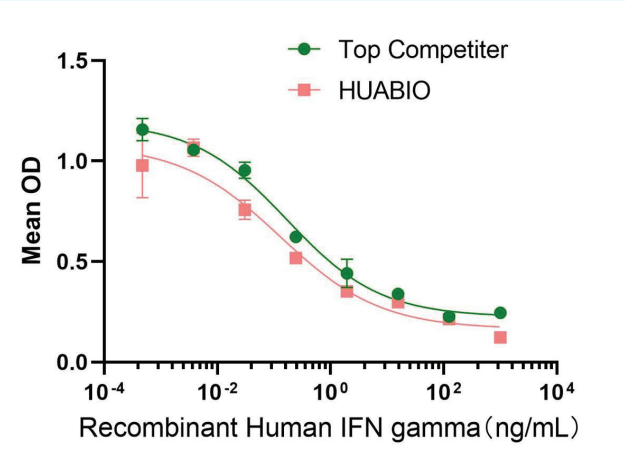
优质重组蛋白推荐

Product name	Catalog#	Source
Human CALCOCO2/NDP52, Tag Free	HA210782	E.coli
Human CCL2/MCP1, Tag Free	HA210787	E.coli
Human CCL5/RANTES, Tag Free	HA210998	HEK293
Human cIAP-2/BIRC3, N-Twin Strep, C-His, Flag Tag	HA210619	E.coli
Human CXCL10, C-Flag Tag	HA210740	HEK293
Human CYLD, C-His Tag	HA210704	E.coli
Human DLD, N-Twin Strep, C-His Tag	HA210504	E.coli
Human EIF2AK3/PERK, C-His Tag	HA210525	E.coli
Human GADD45A, N-Twin Strep, C-His, Flag Tag	HA210743	E.coli
Human GADD45B, N-Twin Strep, C-His, Flag Tag	HA210533	E.coli
Human GranzymeA/GZMA, Tag Free	HA210916	HEK293
Human HVEM/TNFRSF14, C-Flag Tag	HA210556	HEK293
Human HVEM/TNFRSF14, Tag Free (ECD)	HA210849	HEK293
Human IFNA1/IFNA13, C-Tag	HA210732	HEK293
Human IFN-alpha/beta R1, C-His (ECD)	HA210626	HEK293
Human IFN-alpha/beta R2, C-His Tag (ECD)	HA210608	HEK293
Human IFN-gamma R1, C-His Tag (ECD)	HA210514	HEK293
Human IFN-gamma, C-His Tag	HA210762	HEK293
Human IL-1 alpha/IL1A, C-His, Flag Tag	HA210602	HEK293
Human IL-1 beta/IL1B, C-His Tag	HA210576	HEK293
Human IL-3, Tag Free	HA210928	HEK293
Human IL-33, C-His Tag	HA210539	E.coli
Human IL-6, C-His Tag	HA210639	HEK293
Human IL-6, Tag Free	HA210797	HEK293
Human IL-8/CXCL8 Tag Free	HA210642	HEK293
Human IL-18, Tag Free	HA210779	E.coli
Human Interferon alpha-2/IFNA2, C-His Tag	HA210644	HEK293
Human IP-10/CXCL10, Tag Free	HA210896	HEK293
Human KEAP1, C-His Tag	HA210752	E.coli
Human LIAS, N-Twin Strep, C-His, Flag Tag	HA210500	E.coli
Human Lipocalin-2/NGAL, C-His Tag	HA211028	HEK293
Human MMP3, C-His, Flag Tag	HA210853	HEK293

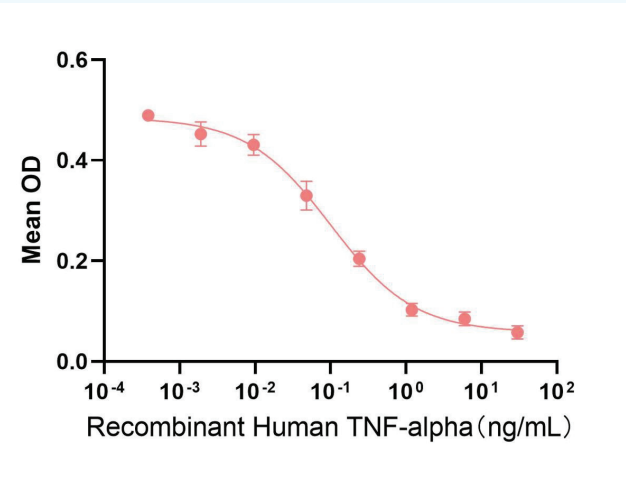
Product name	Catalog#	Source
Human OTUB1, Tag Free	HA210630	E.coli
Human PAI-1/Serpin E1, C-His Tag	HA210982	HEK293
Human PD-L1/B7-H1, C-hFc Tag	HA210873	HEK293
Human PD-L1/B7-H1, C-His Tag	HA210954	HEK293
Human PHGDH, N-Twin Strep, C-His, Flag Tag	HA210678	E.coli
Human PPID, C-His Tag	HA210669	E.coli
Human SETD7/SET7/SET9, C-His Tag	HA210701	E.coli
Human TNF RI/TNFRSF1A, Tag Free (ECD)	HA210562	HEK293
Human TNF-alpha, Tag Free	HA210760	HEK293
Human TRAIL/TNFSF10, C-His Tag	HA210893	E.coli
Human TrkC, C-His, Flag Tag (ECD)	HA210620	HEK293
Human VEGF121, Tag Free	HA210929	HEK293
Human VEGF165, Tag Free	HA210784	HEK293
Mouse BCL2L1, C-His Tag	HA210828	E.coli
Mouse Granzyme B, Tag Free	HA211011	HEK293
Mouse HMGB1, Tag Free	HA210800	HEK293
Mouse IFN-beta, Tag Free	HA210789	HEK293
Mouse IFN-gamma, Tag Free	HA210974	HEK293
Mouse IL-1 alpha/IL1A, C-His Tag	HA210971	HEK293
Mouse IL-1 beta/IL1B, C-His Tag	HA210962	HEK293
Mouse IL-1 beta/IL1B, C-His, Flag Tag	HA210706	E.coli
Mouse IL-33, Tag Free	HA210768	E.coli
Mouse IL-6, C-His Tag	HA210667	HEK293
Mouse IL-6, Tag Free	HA210796	HEK293
Mouse Interferon alpha-1/IFNA1, C-His Tag	HA210987	HEK293
Mouse TNF-alpha, C-His, Flag Tag	HA210527	HEK293
Rat IFN-gamma, C-His, Flag Tag	HA210577	HEK293
Rat IL-1 beta/IL1B, C-Flag Tag	HA210708	E.coli
Rat TNF-alpha, C-His, Flag Tag	HA210538	HEK293

扫码了解更多细胞死亡研究
“重组蛋白” 产品信息

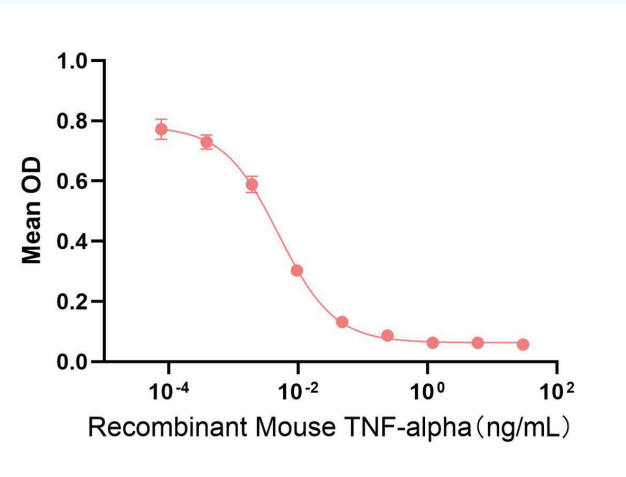




Measured in a cytotoxicity assay using HT-29 human colon cancer cells.
The ED50 for this effect is 0.05-0.25 ng/mL
Human IFN-gamma, C-His Tag Protein | HA210762



Measured in a cytotoxicity assay using L-929 mouse fibroblast cells in the presence of the metabolic inhibitor actinomycin D.
The ED50 for this effect is 25-100 pg/mL
Human TNF-alpha, C-His Tag Protein | HA210761



Measured in a cytotoxicity assay using L-929 mouse fibroblast cells in the presence of the metabolic inhibitor actinomycin D.
The ED50 for this effect is 4-20 pg/mL
Mouse TNF-alpha, C-His, Flag Tag Protein | HA210527

优质ELISA Kits 推荐

Species	Product name	Catalog#	Size	Sensitivity
Human	Human beta-NGF ELISA Kit	EH0065	96T	3.27 pg/ml (50 µl); 1.91 pg/ml (10 µl)
	Human CCL2/MCP-1 ELISA Kit	EH0010	96T	0.04 ng/ml (50 µl); 0.03 ng/ml (10 µl)
	Human CCL5/RANTES ELISA Kit	EH0027	96T	2.78 pg/ml (50 µl) ; 4.12 pg/ml (10 µl)
	Human CXCL10/IP-10 ELISA Kit	EH0026	96T	0.33 pg/ml (50 µl) ; 1.14 pg/ml (10 µl)
	Human Granzyme B ELISA Kit	EH0052	96T	1.12 pg/ml (50 µl); 5.96 pg/ml (10 µl)
	Human IFN-α ELISA Kit	EH0085	96T	0.03 pg/ml (50 µl) ; 0.24 pg/ml (10 µl)
	Human IFN-β ELISA Kit	EH0017	96T	0.35 pg/ml (50 µl)
	Human IFN-γ ELISA Kit	EH0039	96T	0.36 pg/ml (50 µl); 0.85 pg/ml (10 µl)
	Human IL-18 ELISA Kit	EH0053	96T	0.46pg/ml (50 µl); 2.13 pg/ml (10 µl)
	Human IL-1β ELISA Kit	EH0006	96T	0.77 pg/ml (10 µl)
	Human IL-3 ELISA Kit	EH0050	96T	3.74 pg/ml (50 µl); 20.64 pg/ml (10 µl)
	Human IL-33 ELISA Kit	EH0047	96T	0.76 pg/ml (50 µl); 1.25 pg/ml (10 µl)
	Human IL-6 ELISA Kit	EH0001	96T	0.26 pg/ml (50 µl) ; 0.43 pg/ml (10 µl)
	Human IL-8/CXCL8 ELISA Kit	EH0014	96T	1.45 pg/ml (50 µl) ; 3.63 pg/ml (10 µl)
	Human PD-L1/B7-H1 ELISA Kit	EH0048	96T	8.50 pg/ml (50 µl); 26.02 pg/ml (10 µl)
Mouse	Human TNF-α ELISA Kit	EH0002	96T	0.21 pg/ml (50 µl) ; 0.26 pg/ml (10 µl)
	Human VEGF ELISA Kit	EH0075	96T	0.01 pg/ml (50 µl); 1.02 pg/ml (10 µl)
	Mouse CCL5/RANTES ELISA Kit	EM0032	96T	1.86 pg/ml (10 µl)
	Mouse Granzyme B ELISA Kit	EM0016	96T	9.91 pg/ml (10 µl)
	Mouse IFN-beta ELISA Kit	EM0040	96T	7.69 pg/ml (10 µl)
	Mouse IFN-γ ELISA Kit	EM0009	96T	3.24 pg/ml (10 µl)
	Mouse IL-1β ELISA Kit	EM0029	96T	0.91 pg/ml (10 µl)
	Mouse IL-33 ELISA Kit	EM0033	96T	0.33 pg/ml (10 µl)
	Mouse IL-6 ELISA Kit	EM0004	96T	0.29 pg/ml (10 µl)
Rat	Mouse TNF-α ELISA Kit	EM0010	96T	0.097 pg/ml (10 µl)
	Rat IFN-γ ELISA Kit	ER0006	96T	7.39 pg/ml (50 µl)
	Rat IL-1β ELISA Kit	ER0001	96T	1.24 pg/ml (50 µl)
	Rat TNF-α ELISA Kit	ER0007	96T	0.16 pg/ml (50 µl); 0.08pg/ml (10 µl)

扫码了解更多细胞死亡研究
“ELISA Kits” 产品信息



Case 1

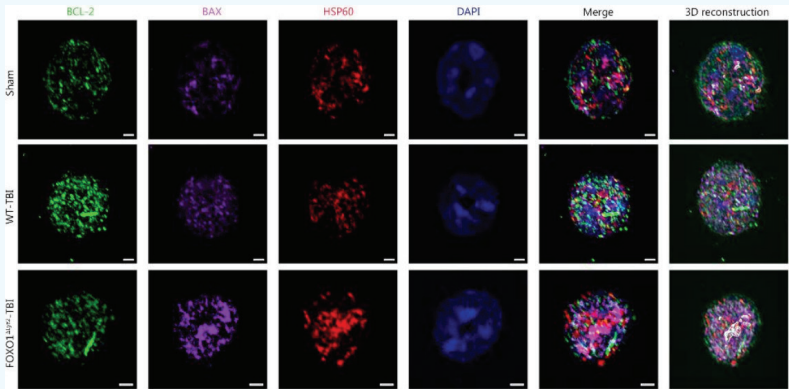
标题: FOXO1 reshapes neutrophils to aggravate acute brain damage and promote late depression after traumatic brain injury

IF: 21.1

期刊: *Mil Med Res.* 2024 Mar 31;11(1):20

产品名称: **Bax rabbit mAb | ET1603-34**; **Bcl-2 rabbit pAb | ER0602**

应用: IF-cell staining with neutrophils of mice



Immunostaining showing the expression, location, and binding between BAX and VCAN in neutrophils from bone marrow in the mouse model of TBI.

Case 2

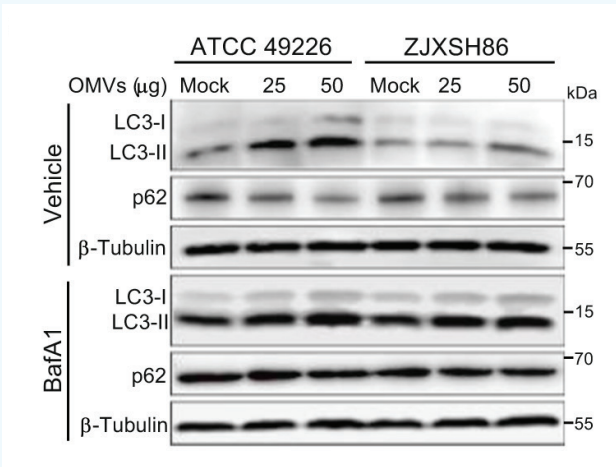
标题: Gonococcal OMV-delivered PorB induces epithelial cell mitophagy

IF: 14.7

期刊: *Nat Commun.* 2024 Feb 23;15(1):1669.

产品名称: **SQSTM1 / p62 rabbit mAb | HA721171**

应用: WB analysis with HeLa cells with OMVs treatment



LC3 Western blots show induction of autophagy flux in HeLa cells stimulated with gonococcal OMVs from strains ATCC 49226 and ZJXSH86.

Case 3

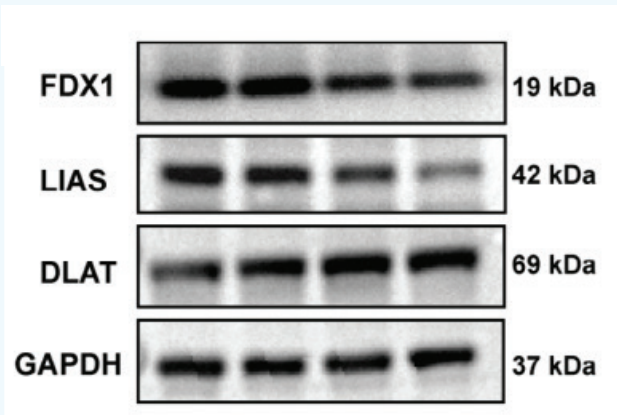
标题: Engineered-Doping Strategy for Self-Sufficient Reactive Oxygen Species Blossom to Amplify Ferroptosis/Cuproptosis Sensibilization in Hepatocellular Carcinoma Treatment

IF: 19.9

期刊: *Advanced Functional Materials.* 2024 Sept 4; Volume 34, Issue 36.

产品名称: **FDX1 rabbit mAb | HA721329**; **LIAS rabbit mAb | HA722085**; **DLAT rabbit mAb | HA721267**

应用: WB analysis with HepG2 cells after different treatments



Western blotting of FDX1, LIAS, and DLAT in HepG2 cells after different treatments.

Case 4

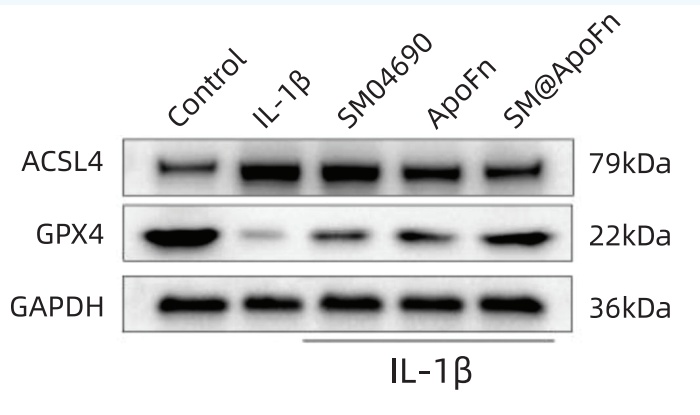
标题: A novel apoferritin nanocage with ECM promoting, ferroptosis suppressing and inflammation targeting property for osteoarthritis therapy

IF: 15.1

期刊: *Chemical Engineering Journal.* 493 (2024) 152398.

产品名称: **GPX4 rabbit mAb | ET1706-45**; **ACSL4/FACL4 rabbit mAb | ET7111-43**

应用: WB analysis with chondrocytes stimulated by IL-1β



The effect and quantification of SM@ApoFn on the protein expression of ACSL4 and GPX4 in chondrocytes stimulated by IL-1beta.

Case 5

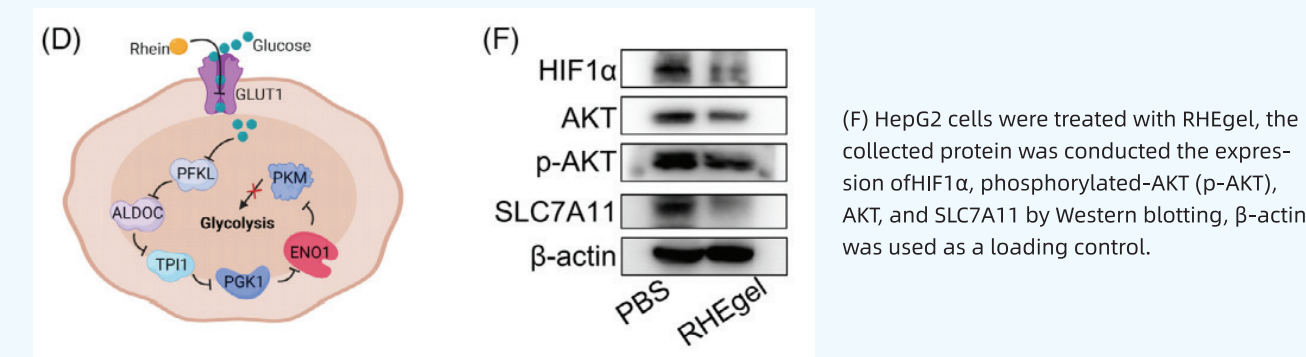
标题: Rhein-based Pickering emulsion for hepatocellular carcinoma: Shaping the metabolic signaling and immunoactivation in transarterial chemoembolization

IF: 18.8

期刊: *Aggregate*. 2024;5:e552.

产品名称: **xCT/SLC7A11 mouse mAb | HA601071**; **AKT1/2/3 rabbit mAb | ET1609-51**;
HIF1 alpha rabbit pAb | ER1802-41

应用: WB analysis with HepG2 cells treated with RHEgel



Case 6

标题: Comprehensive multi-omics analysis of pyroptosis for optimizing neoadjuvant immunotherapy in patients with gastric cancer

IF: 12.4

期刊: *Theranostics*. 2024 May 5;14(7):2915-2933.

产品名称: **Caspase-1 rabbit mAb | ET1608-69**; **pro Caspase-3 rabbit mAb | ET1603-26**;
Gasdermin D (N terminal) rabbit pAb | ER1901-37; **GSDME rabbit pAb | ER1901-12**

应用: IHC-P staining with gastric cancer (GC) tissue

