



扫码关注公众号



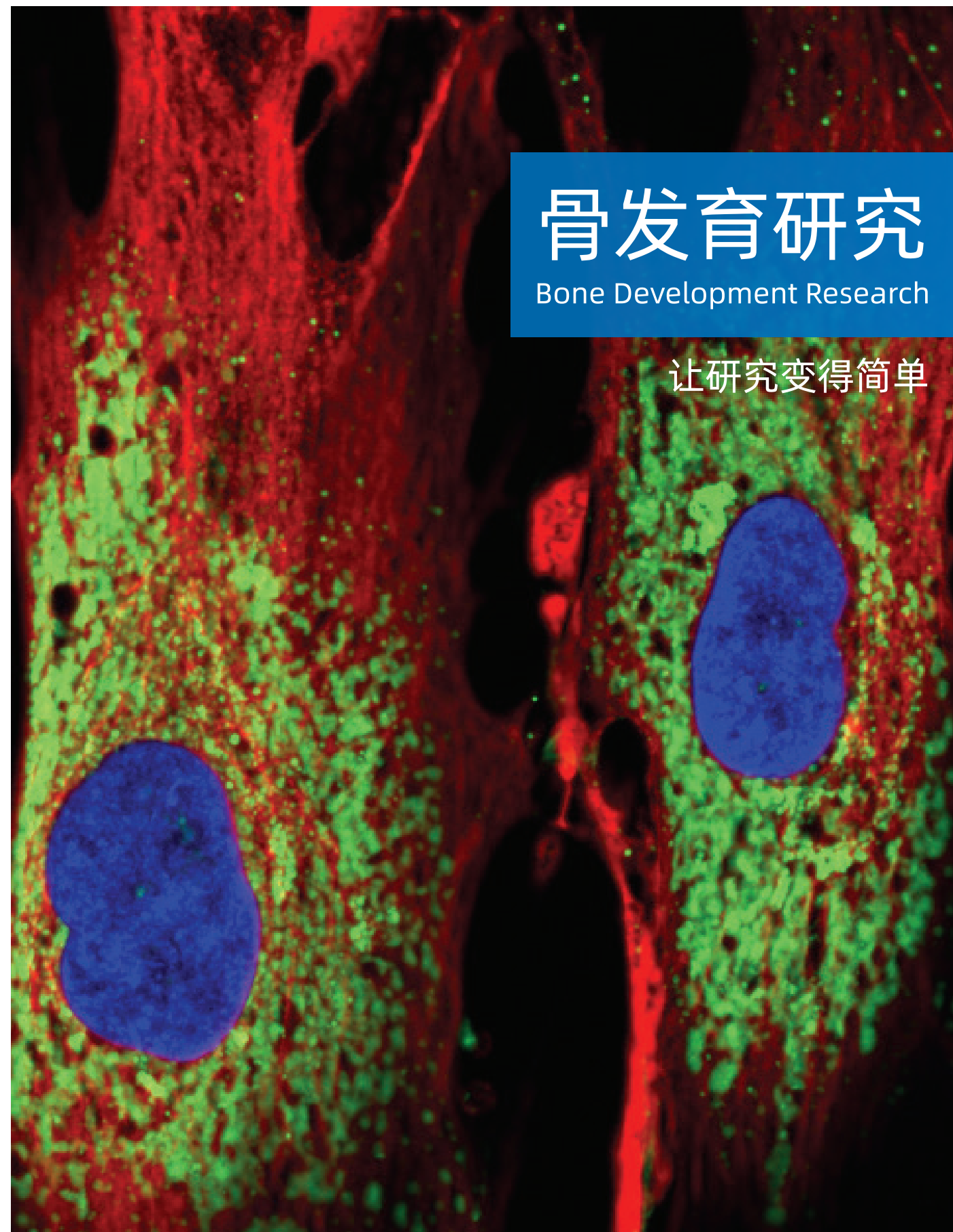
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骨发育研究

Bone Development Research

让研究变得简单

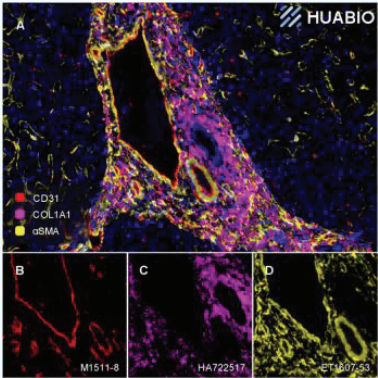
 **华安生物**
H U A B I O

成骨细胞在骨形成、矿化、代谢调节和修复中起关键作用，主要负责维持骨骼的健康与功能。通常，我们会使用特异性抗体去标记和鉴定成骨细胞、检测成骨细胞分化、增殖和凋亡相关信号通路中的关键蛋白及相关疾病机制的研究。

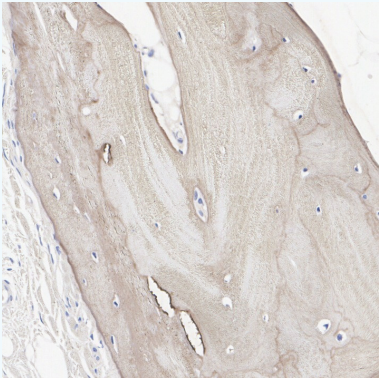
主要靶标	在成骨细胞中的作用
Osteocalcin	参与骨矿化，调节钙离子沉积，作为骨形成的标志物
Osteopontin	调控细胞与基质的相互作用，参与骨重塑过程
BMPs	调控骨形成和修复
ALP	参与骨矿化过程,作为成骨细胞活性的标志物
Collagen Type I	构成骨基质的主要成分，提供结构支持
Osteoprotegerin	抑制破骨细胞生成，保护骨量

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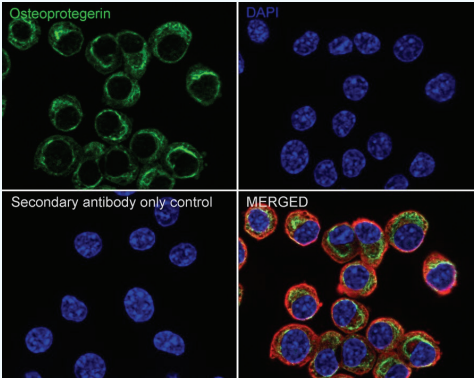
1. 成骨细胞	01-02
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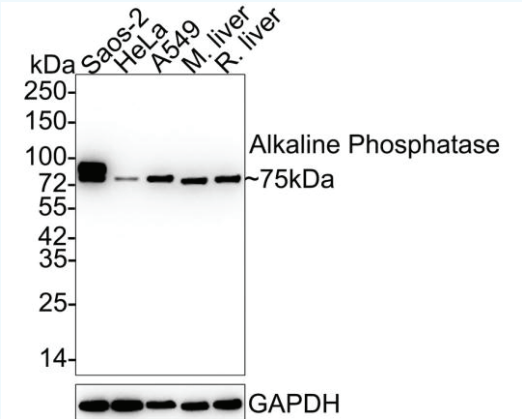
COL1A1重组兔单抗 | HA722517
CD31鼠单抗 | M1511-8
αSMA 重组兔单抗 | ET1607-53
mIHC staining with human liver tissue



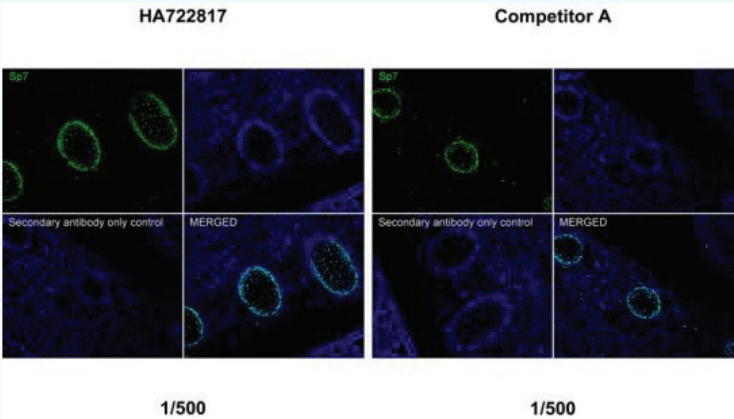
Osteopontin重组兔单抗 | HA723081
IHC-P staining with human bone tissue



Osteoprotegerin兔多抗 | R1608-4
IF-Cell staining with Neuro-2a cells

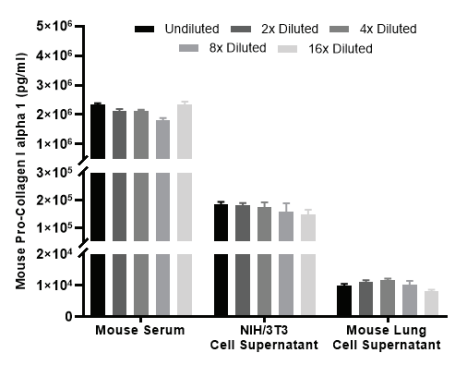


Alkaline Phosphatase 重组兔单抗 | ET1601-21
WB analysis on different lysates

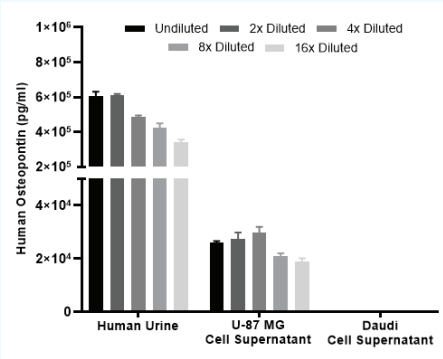


Sp7 / Osterix重组兔单抗 | HA722817
IF-Tissue staining with E14.5 mouse embryo tissue

此外，我们还提供 Pro-Collagen I alpha 1和Osteopontin配对抗体，二者可以为夹心法ELISA检测成骨细胞分化、增殖等过程的变化，并提供精确的读数。



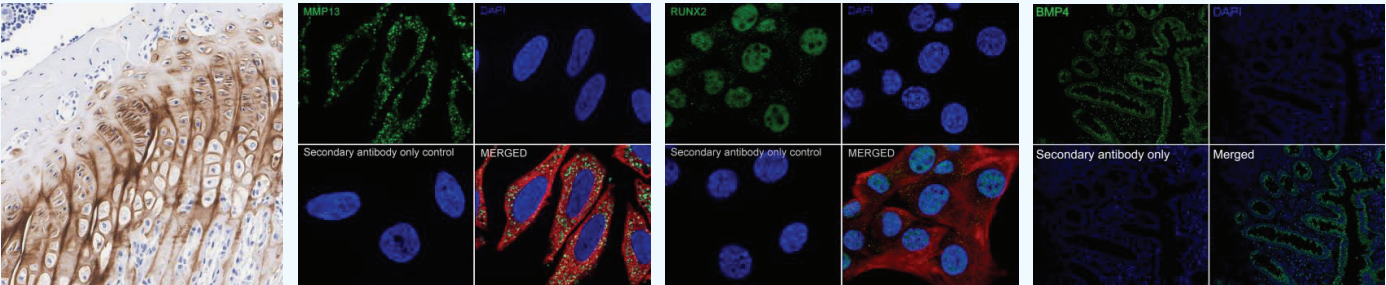
使用小鼠Pro-Collagen I alpha 1配对抗体（Capture: HA722934; Detector: HA722935）对不同浓度的待测样本中Pro-Collagen I alpha 1含量检测分析。
在标准曲线范围内，小鼠血清中Pro-Collagen I alpha 1含量的均值为2146 ng/ml; NIH/3T3细胞上清中Pro-Collagen I alpha 1含量的均值为170 ng/ml; 小鼠肺组织提取上清中Pro-Collagen I alpha 1含量的均值为10 ng/ml。



使用人源Osteopontin 配对抗体（Capture: HA723004; Detector: HA723005）对不同浓度的待测样本中Osteopontin含量检测分析。
在标准曲线范围内，人尿液样本中Osteopontin 含量的均值为493 ng/ml; U-87 MG细胞上清中Osteopontin 含量的均值为25 ng/ml; Daudi细胞上清中Osteopontin 含量低于检测限。

软骨细胞通过合成与分泌细胞外基质、生长因子和细胞因子等，在维持软骨结构、响应力学刺激、促进生长发育及参与修复再生等方面发挥关键作用。

主要靶标	在软骨细胞中的作用
BMPs	参与软骨形成和修复，如BMP-4和BMP-7等
MMPs	参与基质降解，如MMP13
SOX9	调控II型胶原和聚集蛋白聚糖的表达
RUNX2	参与软骨细胞肥大和骨化
COMP	与胶原纤维相互作用，维持基质稳定性
IGF-1	促进软骨细胞生长和基质合成



COMP鼠单抗 | HA601354
IHC-P staining with mouse cartilage tissue

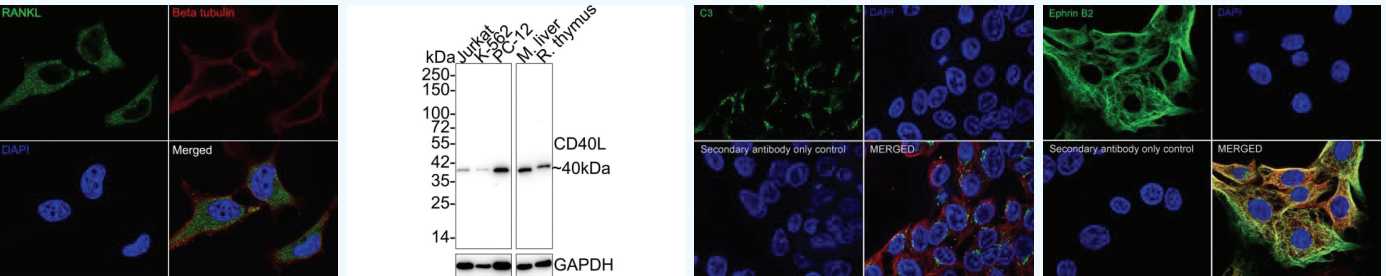
MMP-13重组兔单抗 | ET1702-14
IF-Cell staining with HeLa cells

RUNX2重组兔单抗 | ET1612-47
IF-Cell staining with C2C12 cells

BMP4重组兔单抗 | HA721953
IF-Tissue staining with human colon tissue

破骨细胞通过分泌细胞因子和生长因子，在成骨细胞形成的正负向调节、血管生成、神经支配、肿瘤转移以及免疫调控方面发挥关键性作用。目前，调控破骨细胞分化的各个阶段及细胞间相互作用，已经成为临床上治疗骨质疏松症等破骨细胞失调的骨相关疾病研究的热门领域。

主要靶标	在破骨细胞中的作用
RANKL	是破骨细胞分化和活化的关键调控因子，促进破骨细胞的形成和骨吸收功能
M-CSF	是破骨细胞前体细胞存活和分化的必需因子，促进破骨细胞前体细胞的增殖和分化
OPG	竞争性地与RANKL结合，从而抑制破骨细胞的分化和骨吸收
TRAP/CD40L	是破骨细胞的标志性酶,常用于破骨细胞的鉴定
C3	能够与破骨细胞前体细胞的C3受体结合，诱导其向破骨细胞分化
Ephrin B2	EphB到Ephrin B的逆向信号抑制了破骨细胞的形成，在骨重塑过程中发挥重要的作用



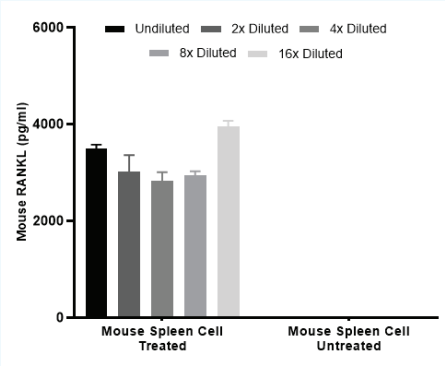
RANKL兔多抗 | HA500369
IF-Cell staining with Hela cells

CD40L重组兔单抗 | ET1703-64
WB analysis on different lysates

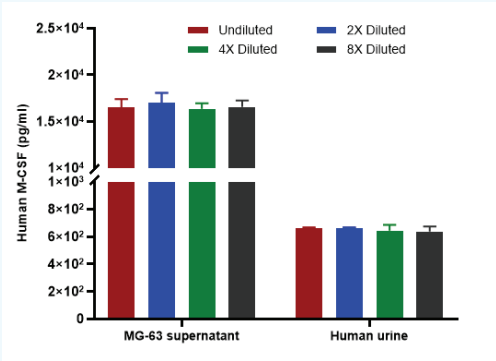
C3重组兔单抗 | ET1702-99
IF-Cell staining with HepG2 cells

Ephrin B2重组兔单抗 | ET1705-33
IF-Cell staining with C6 cells

此外，我们还提供M-CSF和RANKL配对抗体，二者可以为夹心法ELISA检测破骨细胞诱导分化成熟破骨细胞过程的变化，并提供精确的读数。



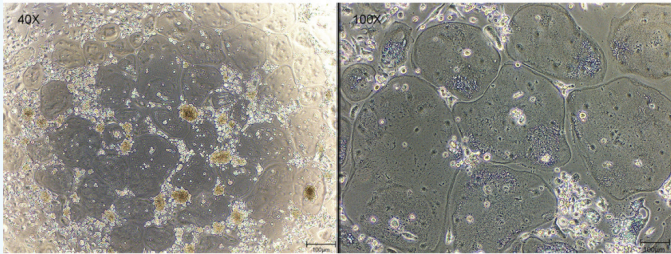
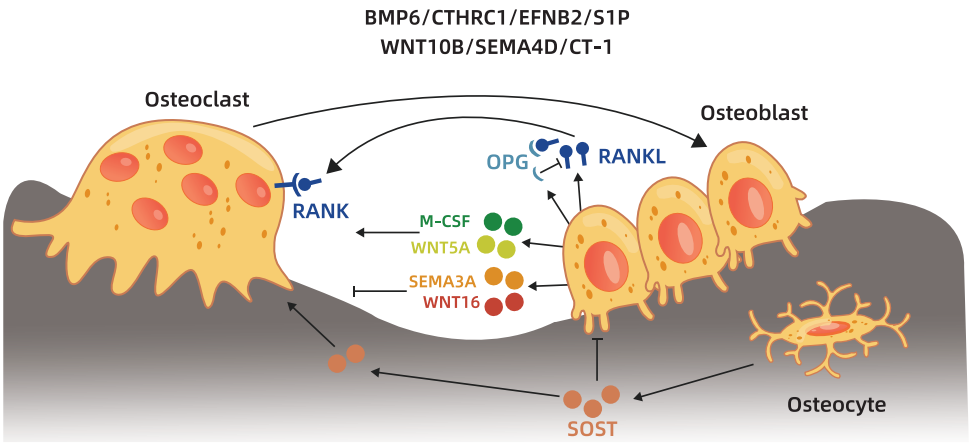
使用小鼠RANKL 配对抗体（Capture: HA722922; Detector: HA722923）对不同浓度的待测样本中RANKL 含量检测分析。在标准曲线范围内，给药处理后小鼠脾脏细胞中RANKL 含量的均值为3,251 pg/ml；而未给药处理后小鼠脾脏细胞中RANKL 含量低于检测限。



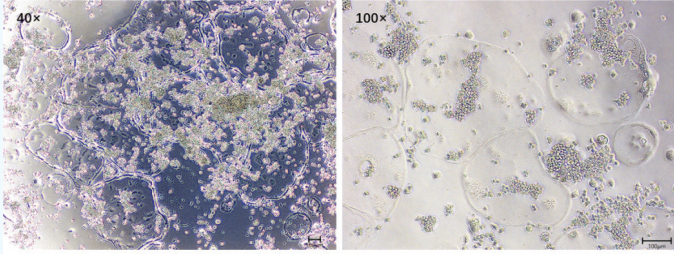
使用人M-CSF 配对抗体（Capture: HA723323; Detector: HA723325）对不同浓度的待测样本中M-CSF 含量检测分析。在标准曲线范围内，MG-63细胞上清中M-CSF 含量的均值为16,592 pg/ml；人尿液样本中RANKL 含量的均值为652 pg/ml。

破骨细胞诱导分化 & 明星蛋白产品

Product name	Catalog#	source
Mouse MCSF/CSF-1, C-His Tag (ECD) Protein	HA210725	HEK293
Mouse TRANCE/RANK L/TNFSF11, N-GST, His Tag Protein	HA210876	E.coli



使用鼠源M-CSF（Catalog# HA210725, 40ng/mL）重组蛋白和鼠源RANK L（Catalog# HA210876, 50ng/mL）重组蛋白体外联合诱导小鼠骨髓源性巨噬细胞（BMDM）连续5天，分化成破骨细胞。



使用鼠源RANK L 重组蛋白（Catalog# HA210876, 50ng/mL）重组蛋白体外诱导小鼠单核巨噬细胞（RAW 264.7）连续5天，分化成破骨细胞。

特色产品推荐

一抗产品

成骨研究				
Product name	Catalog#	Reactivity	Tested applications	Antibody type
Alkaline Phosphatase	ET1601-21	H,Ms,R	WB,IF-Cell,IHC-P,IP,FC	Rabbit mAb
BMP2	ER80602	H,Ms,R	WB,IF-Cell,IHC-P,FC	Rabbit pAb
BMP4	HA721953	H,Ms,R	WB,IF-Cell,IHC-P,IF-Tissue	Rabbit mAb
BMPR1A	R1510-1	H,Ms,R	WB,IF-Cell,IHC-P,FC	Rabbit pAb
BMPR2	EM1709-92	H,Ms,R,Mk	WB,IF-Cell,IHC-P	Mouse mAb
COL1A1	HA722517	H,Ms,R	WB,IHC-P,IF-Tissue,IF-Cell,FC,IP,mIHC,IHC-Fr	Rabbit mAb
Osteocalcin	ER1919-20	H,Ms,R,D,P,Cw,Hs	WB,ELISA,IHC-P,IF-Tissue	Rabbit pAb
Osteopontin	HA723081	H,Ms,R	IHC-Fr,IHC-P,IF-Tissue	Rabbit mAb
Osteoprotegerin	EM1701-98	H,Ms,R	WB,IHC-P,IF-Cell	Mouse mAb
Osteoprotegerin	R1608-4	H,Ms,R	WB,IF-Cell,IHC-P,FC	Rabbit pAb
Placental alkaline phosphatase	ET1705-21	H	WB,IF-Tissue,IHC-P	Rabbit mAb
RUNX2	ET1612-47	H,Ms,R	IF-Cell,IF-Tissue,IHC-P,WB,FC,IP,mIHC	Rabbit mAb
RUNX2	IRS047	H	mIHC	Rabbit mAb
SOX9	ET1611-56	H,Ms,R	WB,IF-Cell,IHC-P,IP,FC,CUT&Tag-seq,mIHC	Rabbit mAb
Sp7 / Osterix	HA722817	H,Ms,R	WB,IHC-P,IF-Tissue,IHC-Fr	Rabbit mAb

软骨研究				
Product name	Catalog#	Reactivity	Tested applications	Antibody type
Aggrecan	ET1704-57	H,R	IHC-P	Rabbit mAb
BMP2	ER80602	H,Ms,R	WB,IF-Cell,IHC-P,FC	Rabbit pAb
BMP4	HA721953	H,Ms,R	WB,IF-Cell,IHC-P,IF-Tissue	Rabbit mAb
BMPR1A	R1510-1	H,Ms,R	WB,IF-Cell,IHC-P,FC	Rabbit pAb
BMPR2	EM1709-92	H,Ms,R,Mk	WB,IF-Cell,IHC-P	Mouse mAb
Collagen X	ET1702-13	R,H,Ms	WB	Rabbit mAb
Collagen XVII	ET1602-14	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP	Rabbit mAb
COMP	HA601354	H,Ms,R	WB,IHC-P	Mouse mAb
Complement C3 (beta chain)	M0809-14	H	WB,IF-Cell,FC	Mouse mAb
FGF18	HA721641	H,Ms	WB	Rabbit mAb
FGF2	ET1703-18	H,Ms	WB,IP,FC,IHC-P	Rabbit mAb
FGFR1	ET1612-62	H	WB,IF-Cell	Rabbit mAb
FGFR2	ET1703-78	H,Ms,R	WB,IP	Rabbit mAb
FGFR2/CD332	EM50103	H	WB	Mouse mAb
FGFR3	ET1703-65	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P	Rabbit mAb
FGFR4	HA721578	H	WB,FC	Rabbit mAb
IGF1	HA722527	H	WB	Rabbit mAb
IL-1 beta	HA601002	H,Ms,R	WB,ELISA,IF-Cell	Mouse mAb
IL-1 beta	ET1701-39	H	WB,IF-Cell,IF-Tissue,IHC-P,FC	Rabbit mAb
MMP-3	ET1705-98	H,Ms,R	WB,IHC-P	Rabbit mAb
MMP-13	ET1702-14	H	WB, IF-Cell, IF-Tissue, IHC-P, FC	Rabbit mAb
RUNX2	ET1612-47	H,Ms,R	IF-Cell,IF-Tissue,IHC-P,WB,FC,IP,mIHC	Rabbit mAb
RUNX2	IRS047	H	mIHC	Rabbit mAb
SOX9	ET1611-56	H,Ms,R	WB,IF-Cell,IHC-P,IP,FC,CUT&Tag-seq,mIHC	Rabbit mAb
TGF beta 1	HA721143	H,Ms,R	WB,IHC-P,IF-Tissue	Rabbit mAb
TGF beta Receptor II	HA721693	H	WB	Rabbit mAb
破骨研究				
Product name	Catalog#	Reactivity	Tested applications	Antibody type
C3	ET1702-99	H,Ms,R	WB,IF-Cell,FC	Rabbit mAb
C3	ET7106-75	H	WB,IHC-P,IP	Rabbit mAb
Cathepsin L/V/K/H	ET1703-44	H,Ms,R	WB,IF-Tissue,IHC-P	Rabbit mAb
Ephrin B2	ET1705-33	H,Ms,R	WB,IF-Cell	Rabbit mAb

破骨研究				
Product name	Catalog#	Reactivity	Tested applications	Antibody type
M-CSF	ET1609-1	H,Ms	WB,IHC-P,IF-Cell,IP	Rabbit mAb
Neuropilin 1	ET1609-69	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP	Rabbit mAb
NFAT2	ET1704-45	H	WB,IHC-P,FC	Rabbit mAb
Osteoprotegerin	EM1701-98	H,Ms,R	WB,IHC-P,IF-Cell	Mouse mAb
Osteoprotegerin	R1608-4	H,Ms,R	WB,IF-Cell,IHC-P,FC	Rabbit pAb
RANKL	HA500369	H,Ms,R	WB,IF-Cell	Rabbit pAb
关键信号调控蛋白				
Product name	Catalog#	Reactivity	Tested applications	Antibody type
AKT1	ET1609-47	H,Ms,R	WB,IHC-P,IP,FC,IHC-Fr,IF-Cell	Rabbit mAb
Phospho-AKT1 (T450)	ET1612-73	H,Ms,R	WB,IHC-P,IP,IF-Cell,FC	Rabbit mAb
AKT1/2/3	ET1609-51	H,Ms,R,Mk	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC,IHC-Fr	Rabbit mAb
Phospho-AKT (S473)	ET1607-73	H,Ms,R,D	WB,IF-Cell,IF-Tissue,IHC-P,IHC-Fr	Rabbit mAb
Phospho-AKT (S473)	HA722129	H,Ms,R	WB,IHC-P,FC	Rabbit mAb
ATP2A1/SERCA1	ER1803-34	H,Ms,R	WB,IHC-P,FC	Rabbit pAb
Beta Catenin	ET1601-5	H,Ms,R	WB,IHC-P,IF-Tissue,IP,mIHC,IF-Cell,IHC-Fr,FC	Rabbit mAb
Phospho-Beta Catenin (S33 + S37)	HA721580	H,R,Ms	WB	Rabbit mAb
C/EBP Beta	ET1610-9	H,R,Ms	WB,FC,IP	Rabbit mAb
Calcineurin B	HA500346	H,Ms,R	WB,IF-Cell,IHC-P,FC	Rabbit pAb
CCL2	HA500267	Ms,H	WB,FC	Rabbit pAb
CCL3	R1510-9	H,Ms,R	IF-Cell,IHC-P,FC,ELISA	Rabbit pAb
c-Fos	ET1701-95	Ms,H,R	WB,IHC-P,FC,IF-Cell	Rabbit mAb
c-Fos	HA601373	Ms,R,H	IHC-Fr,IF-Tissue	Rat mAb
c-Fos	HA601374	Ms,R,H	IHC-Fr	Guinea pig mAb
c-Fos	HA722666	H,Ms,R	WB,IHC-P,IF-Cell,IHC-Fr,mIHC,IF-Tissue	Rabbit mAb
c-Fos	HA722839	H,Ms,R	IHC-P,IF-Cell,ChIP,WB,IHC-Fr,IF-Tissue	Rabbit mAb
c-Jun	ET1608-3	H,Ms,R	WB,IF-Cell,IHC-P,IP	Rabbit mAb
Phospho-c-Jun (S63)	ET1608-4	H,Ms,R	WB,IF-Cell,IHC-P	Rabbit mAb
Collagen III	HA720050	H,Ms,R	WB,IF-Cell,FC	Rabbit mAb
Collagen IV	HA500197	H	WB,IF-Cell	Rabbit pAb
CREB	ET1601-15	H,Ms,Z,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC	Rabbit mAb
Phospho-Creb (S133)	ET7107-93	H,Ms,R	WB,IF-Cell,IHC-P,IP,FC,IF-Tissue	Rabbit mAb
CXCL12/SDF1	ER1902-35	H,Ms,R	WB,IHC-P,IF-Cell,FC	Rabbit pAb

关键信号调控蛋白				
Product name	Catalog#	Reactivity	Tested applications	Antibody type
DKK1	ET1610-63	H,R	WB,IF-Cell,IF-Tissue,IHC-P,FC	Rabbit mAb
ERK1	ET1604-32	H	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC	Rabbit mAb
ERK1/2	ET1601-29	H,Ms,R,Z	WB,IF-Cell,IF-Tissue,IP,FC,IHC-P,IHC-Fr	Rabbit mAb
Phospho-Erk1 (T202)+Erk2 (T185)	ET1603-22	H,Ms,R	WB,IF-Cell,IHC-P,FC,IF-Tissue	Rabbit mAb
Phospho-Erk1 (T202 + Y204) + Erk2 (T185 + Y187)	ET1610-13	H,Ms,R	WB,IHC-P,IF-Cell,IF-Tissue,FC,IP	Rabbit mAb
ERK2	ER131218	H,Ms,R	WB,IF-Cell,IHC-P,FC	Rabbit pAb
ERK5	ET1612-7	H,Ms,R	WB,IF-Cell,IF-Tissue,IP,FC	Rabbit mAb
FAK	ET1602-25	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC,IP	Rabbit mAb
Phospho-FAK (Y397)	ET1610-34	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P	Rabbit mAb
FosB	ET1611-75	H,Ms,R	WB,IHC-P,IP	Rabbit mAb
Gli1	ET1702-85	H,Ms,R	WB,IHC-P,IF-Cell	Rabbit mAb
Glucose Transporter GLUT1	ET1601-10	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC	Rabbit mAb
Glut-1	ER1510-11	H,Ms	WB,IF-Cell,IHC-P,FC	Rabbit pAb
GRB2	ER31203	H,Ms,R	WB,IF-Cell,IHC-P,FC	Rabbit pAb
Phospho-GSK3 (alpha + beta) (Y216 + Y279)	ET1607-54	H,Ms,R	WB,IF-Cell,IHC-P,IP,IF-Tissue,FC	Rabbit mAb
GSK3 alpha	R1312-1	H	WB,IF-Cell,IHC-P,FC	Rabbit pAb
Phospho-GSK3 beta (S9)	ET1607-60	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC	Rabbit mAb
GSK3 beta	ET1607-71	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC,IHC-Fr	Rabbit mAb
HLA-DR	ET1610-66	H,Ms,R	WB,IF-Cell,IHC-P,FC	Rabbit mAb
IFNAR1	ET1602-37	H,Ms,R	WB,IHC-P,FC,IP,ICC	Rabbit mAb
IKB alpha	ET1603-6	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC	Rabbit mAb
Phospho-IKB alpha (S32)	ET1609-78	H,Ms	WB,IF-Cell,IP	Rabbit mAb
Phospho-IKB alpha (S36)	HA721802	H,Ms,R	WB	Rabbit mAb
IKK alpha + IKK beta	ET1611-23	H,Ms,R	WB,IF-Cell,IP	Rabbit mAb
IKK beta	HA721715	H	WB,FC	Rabbit mAb
IKK gamma	ET1704-40	H,Ms,R	WB,IHC-P,IF-Cell,IF-Tissue,IP,FC	Rabbit mAb
IL-4	ER1706-55	H	WB,IF-Cell,IHC-P	Rabbit pAb
IL-6	R1412-2	H,Ms,R	WB,IF-Cell,IHC-P,FC	Rabbit pAb
IL-6	EM1701-45	Ms,R	WB,IF-Cell	Mouse mAb
IL-10	HA722032	H,Ms,R	WB,IF-Cell,IHC-P	Rabbit mAb
Integrin beta 1	ET1601-17	H,Ms,R,Z	WB,IHC-P	Rabbit mAb
Integrin beta 3	ET1606-49	H,Ms	WB,IHC-P,IF-Tissue	Rabbit mAb

关键信号调控蛋白				
Product name	Catalog#	Reactivity	Tested applications	Antibody type
Interferon gamma	ET1703-17	H	WB,FC	Rabbit mAb
JAK1	ET1705-84	H,Ms,R	WB,IHC-P,FC,IF-Cell,IF-Tissue	Rabbit mAb
JNK1	R1309-1	H,Ms,R,Z	WB,IF-Cell,IHC-P,FC	Rabbit pAb
Phospho-JNK1/2/3 (T183 + T183 + T221)	ET1609-42	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC,IHC-Fr	Rabbit mAb
JNK1+JNK2+JNK3	ET1601-28	H,Ms,R,Cw,Mk,Z	WB,IF-Cell,IF-Tissue,IHC-P,IP	Rabbit mAb
JNK2	ET1610-11	H,Ms,R	WB,IF-Cell,IHC-P,IP,FC	Rabbit mAb
JNK3	ET1612-68	H,Ms,R	WB,IF-Cell,IF-Tissue,FC	Rabbit mAb
LRP6	HA600065	H	WB,IHC-P	Mouse mAb
Mannose Receptor(CD206)	ET1702-04	H,Ms	WB,IF-Cell,FC	Rabbit mAb
MAPK14	R1308-3	H,Ms,R	WB,IF-Cell,IHC-P,FC	Rabbit pAb
MEK1	ET1603-20	H,Ms,R,Cw,D	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC	Rabbit mAb
Phospho-MEK1 (S298)	ET1612-40	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P	Rabbit mAb
MEK1/2	ET1602-3	H,Ms,R,Z	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC	Rabbit mAb
Phospho-MEK1/2 (S218 + S222)	ET1609-50	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP	Rabbit mAb
MitF	ET1702-86	H,Ms,R	WB,IF-Cell,FC	Rabbit mAb
NFAT1	ET1704-14	H	WB,IF-Tissue,IHC-P	Rabbit mAb
NF-kB p100 / NFkB2	EM1901-78	H	WB,IHC-P,FC	Mouse mAb
NF-kB p105 / p50	ET1603-18	H,Ms,R	WB,IHC-P,ICC,FC,IF-Tissue	Rabbit mAb
NF-kB p65	ER0815	H,Ms,R,Z	WB,IHC-P,FC	Rabbit pAb
NF-kB p65	ET1603-12	H,Ms,R,Z	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC	Rabbit mAb
Phospho-NF-kB p65 (S529)	ET1604-27	H	WB,IHC-P,FC,IP	Rabbit mAb
Notch 1	ET1606-55	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC	Rabbit mAb
p38 alpha	ET1702-65	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC	Rabbit mAb
p38 alpha/MAPK14	ET1602-26	H,Ms,R	WB,IF-Cell,IF-Tissue,FC	Rabbit mAb
Phospho-p38 (T180 + Y182)	ER2001-52	H,Ms,R	WB	Rabbit pAb
Phospho-p38 (T180)	HA722150	H,Ms,R	WB,IF-Cell,IHC-P	Rabbit mAb
p47-phox	HA600049	H,Ms	WB,IF-Cell,IHC-P	Mouse mAb
PI 3 Kinase p55 gamma	ET1602-27	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P	Rabbit mAb
PI 3 Kinase p85 alpha	ET1608-70	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC	Rabbit mAb
PI 3 Kinase p85 alpha	HA601206	H	WB,IF-Cell	Mouse mAb
PI3 Kinase p110α	ET1606-36	H,Ms	WB,IF-Cell,IF-Tissue,IP,IHC-P	Rabbit mAb
Phospho-PI3K p85 (Y467) + PI3K p55 (Y199)	HA721672	H,Ms	WB,IF-Cell	Rabbit mAb

关键信号调控蛋白				
Product name	Catalog#	Reactivity	Tested applications	Antibody type
PI3-kinase p110 subunit beta	ET1610-36	H	WB,IP,IHC-P,FC	Rabbit mAb
RAC1	HA722225	H	WB,IF-Cell	Rabbit mAb
Rac1-2-3	ET1703-80	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P	Rabbit mAb
RANTES	ET1705-70	H,Ms	WB,IHC-P,IF-Cell,IF-Tissue	Rabbit mAb
RelB	ET1612-18	H	WB,IF-Tissue,IHC-P,IP	Rabbit mAb
Smad2	ET1604-22	H,Ms,R	WB,IF-Cell,IHC-P,IP,FC	Rabbit mAb
Phospho-Smad2 (S250)	ET1612-32	H,Ms,R	WB,FC,IP	Rabbit mAb
Phospho-Smad2 (S255)	ET1702-34	H,Ms,R	WB,IHC-P,IP	Rabbit mAb
Phospho-Smad5 (S463 + S465)	ET1605-5	H,Ms,R	WB,IF-Cell,IHC-P	Rabbit mAb
Smad5	ET1606-26	H,Ms,R	WB,IF-Cell,IHC-P,FC	Rabbit mAb
SOCS3	ER65765	H,Ms,R	WB,IHC-P,FC	Rabbit pAb
Sonic Hedgehog Protein/SHH(C-Product)	ET1610-6	H,Ms	WB,IF-Cell,IF-Tissue,IHC-P,FC	Rabbit mAb
SQSTM1 / p62	EM0704	H,Ms,R	IF-Cell,IHC-P,FC	Mouse mAb
SQSTM1 / p62	HA721171	H,Ms,R	WB,IHC-P,IF-Cell,FC,IF-Tissue,IHC-Fr	Rabbit mAb
STAT1	ET1612-22	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC,IP	Rabbit mAb
Phospho-STAT1 (S727)	ET1611-20	H,Ms,R	WB,IHC-P,IF-Cell,FC	Rabbit mAb
Phospho-STAT1 (Y701)	HA722083	H	WB,IF-Cell	Rabbit mAb
STAT1 alpha	ET1606-39	H,Ms	WB,IP,FC,IHC-P,IF-Cell,IF-Tissue	Rabbit mAb
STAT2	ET1702-18	H,Ms,R	WB,IF-Cell,IHC-P,FC	Rabbit mAb
TAK1	ET1705-14	H,Ms,R,Mk	WB	Rabbit mAb
TNF alpha	HA722022	H,Ms	WB	Rabbit mAb
TNF alpha	R1203-1	Ms	WB,ELISA	Rabbit pAb
TNF Receptor I	HA500140	H	WB,IHC-P,FC	Rabbit pAb
TRAF2	ET1612-5	H,Ms,R	WB,IF-Tissue,IHC-P,IP	Rabbit mAb
TRAF6	R1311-2	H,Ms,R,C,Z	IF-Cell,IHC-P,WB	Rabbit pAb
Transferrin Receptor (CD71)	ET1702-06	H,Ms,R	WB,IP,FC	Rabbit mAb
TREM2	ER1902-96	H	WB,IHC-P,FC	Rabbit pAb
Tyk2	ER1803-05	H,R	WB,IF-Cell,IHC-P,FC	Rabbit pAb

*H: Human; Ms: Mouse; R: Rat; Mk: Monkey; D: Dog; P: Pig; Cw: Cow; C: Chicken; Z: Zebrafish; Hs: Horse

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“一抗”产品信息



ELISA Kits推荐

Product name	Catalog#	Sensitivity
Human CCL2 ELISA Kit	EH0010	0.04 ng/ml (50 µl); 0.03 ng/ml (10 µl)
Human CCL5/RANTES ELISA Kit	EH0027	2.78 pg/ml (50 µl) ; 4.12 pg/ml (10 µl)
Human CXCL10/IP-10 ELISA Kit	EH0026	0.33 pg/ml (50 µl) ; 1.14 pg/ml (10 µl)
Human FGF ELISA Kit	EH0024	1.51 pg/ml (50 µl) ; 9.93 pg/ml (10 µl)
Human IFN-beta ELISA Kit	EH0017	0.35 pg/ml (50 µl)
Human IFN-gamma ELISA Kit	EH0039	0.36 pg/ml (50 µl); 0.85 pg/ml (10 µl)
Human IL-10 ELISA Kit	EH0009	0.89 pg/ml (10 µl)
Human IL-18 ELISA Kit	EH0053	0.46pg/ml (50 µl); 2.13 pg/ml (10 µl)
Human IL-1beta ELISA Kit	EH0006	0.77 pg/ml (10 µl)
Human IL-33 ELISA Kit	EH0047	0.76 pg/ml (50 µl); 1.25 pg/ml (10 µl)
Human IL-4 ELISA Kit	EH0007	0.03 pg/ml (50 µl) ; 0.28 pg/ml (10 µl)
Human IL-6 ELISA Kit	EH0001	0.26 pg/ml (50 µl) ; 0.43 pg/ml (10 µl)
Human Leptin ELISA Kit	EH0056	9.45 pg/ml (50 µl); 18.83 pg/ml (10 µl)
Human Osteoprotegerin/TNFRSF11B ELISA Kit	EH0070	0.37 pg/ml (50 µl); 2.53 pg/ml (10 µl)
Human TNF-alpha ELISA Kit	EH0002	0.21 pg/ml (50 µl) ; 0.26 pg/ml (10 µl)
Human VCAM-1/CD106 ELISA Kit	EH0067	7.07 pg/ml (50 µl)
Human/Mouse/Rat/Porcine/Canine TGF-beta1 ELISA Kit	EH0012	33.32 pg/ml (50 µl)
Mouse CCL2/MCP-1 ELISA Kit	EM0025	1.78 pg/ml (10 µl)
Mouse CCL3/MIP-1 alpha ELISA Kit	EM0031	0.51 pg/ml (10 µl)
Mouse IFN-gamma ELISA Kit	EM0009	3.24 pg/ml (10 µl)
Mouse IFN-β ELISA Kit	EM0040	7.69 pg/ml (10 µl)
Mouse IL-10 ELISA Kit	EM0005	5.75 pg/ml (10 µl)
Mouse IL-18 ELISA Kit	EM0034	1.46 pg/ml (10 µl)
Mouse IL-1beta ELISA Kit	EM0029	0.91 pg/ml (10 µl)
Mouse IL-33 ELISA Kit	EM0033	0.33 pg/ml (10 µl)
Mouse IL-4 ELISA Kit	EM0003	0.35 pg/ml (10 µl)
Mouse IL-6 ELISA Kit	EM0004	0.29 pg/ml (10 µl)
Mouse Leptin ELISA Kit	EM0027	19.30 pg/ml (50 µl)
Mouse TNF-alpha ELISA Kit	EM0010	0.097 pg/ml (10 µl)
Mouse TREM2 ELISA Kit	EM0039	0.60 pg/ml (10 µl)
Mouse/Rat IGF1/IGF-I/IGF-1 ELISA Kit	EM0024	1.76 pg/ml (50 µl); 3.43 pg/ml (10 µl)
Rat IFN-gamma ELISA Kit	ER0006	7.39 pg/ml (50 µl)

Product name	Catalog#	Sensitivity
Rat IL-1beta ELISA Kit	ER0001	17.11 pg/ml (50 µl)
Rat IL-4 ELISA Kit	ER0003	17.29pg/ml (50 µl)
Rat IL-6 ELISA Kit	ER0004	7.05pg/ml (50 µl)
Rat TNF-alpha ELISA Kit	ER0007	0.16 pg/ml (50 µl); 0.08pg/ml (10 µl)



配对抗体

Product name	Catalog#	Tested applications	Antibody type
Human CCL3 / MIP-1 alpha	HA723377	ELISA(Cap)	Recombinant Rabbit mAb
Human CCL3 / MIP-1 alpha	HA723378	ELISA(Det)	Recombinant Rabbit mAb
Human CD73	HA722957	ELISA(Cap)	Recombinant Rabbit mAb
Human CD73	HA722958	ELISA(Det)	Recombinant Rabbit mAb
Human CD85d	HA722381	ELISA(Cap)	Recombinant Rabbit mAb
Human CD85d	HA722382	ELISA(Det)	Recombinant Rabbit mAb
Human FGF-2	HA721780	ELISA(Cap)	Recombinant Rabbit mAb
Human FGF-2	HA721781	ELISA(Det)	Recombinant Rabbit mAb
Human IFNGR1	HA722679	ELISA(Cap)	Recombinant Rabbit mAb
Human IFNGR1	HA722680	ELISA(Det)	Recombinant Rabbit mAb
Human IL-1 beta	HA721278	ELISA(Cap)	Recombinant Rabbit mAb
Human IL-1 beta	HA721279	ELISA(Det)	Recombinant Rabbit mAb
Human IL-10	HA721236	ELISA(Cap)	Recombinant Rabbit mAb
Human IL-10	HA721237	ELISA(Det)	Recombinant Rabbit mAb
Human IL-18	HA721722	ELISA(Cap)	Recombinant Rabbit mAb
Human IL-18	HA721723	ELISA(Det)	Recombinant Rabbit mAb
Human IL-33	HA721935	ELISA(Cap)	Recombinant Rabbit mAb
Human IL-33	HA721936	ELISA(Det)	Recombinant Rabbit mAb
Human IL-4	HA721230	ELISA(Cap)	Recombinant Rabbit mAb
Human IL-4	HA721231	ELISA(Det)	Recombinant Rabbit mAb

Product name	Catalog#	Tested applications	Antibody type
Human IL-4R	HA723336	ELISA(Cap)	Recombinant Rabbit mAb
Human IL-4R	HA723337	ELISA(Det)	Recombinant Rabbit mAb
Human IL-6	HA721167	ELISA(Cap)	Recombinant Rabbit mAb
Human IL-6	HA721168	ELISA(Det)	Recombinant Rabbit mAb
Human Interferon gamma	HA721574	ELISA(Cap)	Recombinant Rabbit mAb
Human Interferon gamma	HA721575	ELISA(Det)	Recombinant Rabbit mAb
Human Interferon gamma	HA721683	ELISA(Cap)	Recombinant Rabbit mAb
Human Interferon gamma	HA721684	ELISA(Cap)	Recombinant Rabbit mAb
Human Interferon gamma	HA721685	ELISA(Det)	Recombinant Rabbit mAb
Human M-CSF	HA723323	ELISA(Cap)	Recombinant Rabbit mAb
Human M-CSF	HA723324	ELISA(Cap)	Recombinant Rabbit mAb
Human M-CSF	HA723325	ELISA(Det)	Recombinant Rabbit mAb
Human MMP-3	HA722877	ELISA(Cap)	Recombinant Rabbit mAb
Human MMP-3	HA722878	ELISA(Det)	Recombinant Rabbit mAb
Human Osteopontin	HA723004	ELISA(Cap)	Recombinant Rabbit mAb
Human Osteopontin	HA723005	ELISA(Det)	Recombinant Rabbit mAb
Human Osteopontin	HA723006	ELISA(Det)	Recombinant Rabbit mAb
Human PDGF-BB	HA722497	ELISA(Cap)	Recombinant Rabbit mAb
Human PDGF-BB	HA722498	ELISA(Det)	Recombinant Rabbit mAb
Human sTNF RI	HA723158	ELISA(Cap)	Recombinant Rabbit mAb
Human sTNF RI	HA723159	ELISA(Det)	Recombinant Rabbit mAb
Human TNF alpha	HA721265	ELISA(Cap)	Recombinant Rabbit mAb
Human TNF alpha	HA721266	ELISA(Det)	Recombinant Rabbit mAb
Human TRAIL	HA722943	ELISA(Cap)	Recombinant Rabbit mAb
Human TRAIL	HA722944	ELISA(Det)	Recombinant Rabbit mAb
Human TREM2	HA723149	ELISA(Cap),ELISA(Det)	Recombinant Rabbit mAb
Human TREM2	HA723150	ELISA(Cap)	Recombinant Rabbit mAb
Human TREM2	HA723151	ELISA(Det)	Recombinant Rabbit mAb
Mouse CCL3	HA722982	ELISA(Cap)	Recombinant Rabbit mAb
Mouse CCL3	HA722983	ELISA(Det)	Recombinant Rabbit mAb
Mouse IFN beta	HA722172	ELISA(Cap)	Recombinant Rabbit mAb
Mouse IFN gamma	HA721956	ELISA(Cap)	Recombinant Rabbit mAb
Mouse IL-1 beta	HA721976	ELISA(Cap)	Recombinant Rabbit mAb

Product name	Catalog#	Tested applications	Antibody type
Mouse IL-1 beta	HA721977	ELISA(Det)	Recombinant Rabbit mAb
Mouse IL-1 beta	HA722166	ELISA(Cap)	Recombinant Rabbit mAb
Mouse IL-1 beta	HA722167	ELISA(Det)	Recombinant Rabbit mAb
Mouse IL-10	HA721517	ELISA(Cap)	Recombinant Rabbit mAb
Mouse IL-10	HA721518	ELISA(Det)	Recombinant Rabbit mAb
Mouse IL-33	HA722985	ELISA(Cap)	Recombinant Rabbit mAb
Mouse IL-33	HA722986	ELISA(Det)	Recombinant Rabbit mAb
Mouse IL-4	HA722168	ELISA(Cap)	Recombinant Rabbit mAb
Mouse IL-4	HA722169	ELISA(Det)	Recombinant Rabbit mAb
Mouse IL-4	HA722262	ELISA(Cap)	Recombinant Rabbit mAb
Mouse IL-4	HA722263	ELISA(Det)	Recombinant Rabbit mAb
Mouse IL-6	HA721411	ELISA(Cap)	Recombinant Rabbit mAb
Mouse IL-6	HA721412	ELISA(Det)	Recombinant Rabbit mAb
Mouse IL-6	HA721413	ELISA(Det)	Recombinant Rabbit mAb
Mouse IL-6	HA721600	ELISA(Cap)	Recombinant Rabbit mAb
Mouse IL-6	HA721601	ELISA(Det)	Recombinant Rabbit mAb
Mouse Pro-Collagen I alpha 1	HA722934	ELISA(Cap)	Recombinant Rabbit mAb
Mouse Pro-Collagen I alpha 1	HA722935	ELISA(Det)	Recombinant Rabbit mAb
Mouse RANKL	HA722922	ELISA(Cap)	Recombinant Rabbit mAb
Mouse RANKL	HA722923	ELISA(Cap)	Recombinant Rabbit mAb
Mouse RANKL	HA722924	ELISA(Det)	Recombinant Rabbit mAb
Mouse TNF alpha	HA722040	ELISA(Cap)	Recombinant Rabbit mAb
Mouse TNF alpha	HA722041	ELISA(Det)	Recombinant Rabbit mAb
Mouse Trem2	HA721760	ELISA(Cap)	Recombinant Rabbit mAb
Mouse Trem2	HA721761	ELISA(Det)	Recombinant Rabbit mAb
Mouse/Rat TNF alpha	HA721974	ELISA(Cap)	Recombinant Rabbit mAb
Mouse/Rat TNF alpha	HA721975	ELISA(Det)	Recombinant Rabbit mAb
Rat IFN gamma	HA721618	ELISA(Cap)	Recombinant Rabbit mAb
Rat IFN gamma	HA721619	ELISA(Det)	Recombinant Rabbit mAb
Rat IFN gamma	HA722421	ELISA(Cap)	Recombinant Rabbit mAb
Rat IFN gamma	HA722422	ELISA(Det)	Recombinant Rabbit mAb
Rat IL-1 beta	HA721609	ELISA(Cap)	Recombinant Rabbit mAb
Rat IL-1 beta	HA721610	ELISA(Det)	Recombinant Rabbit mAb

Product name	Catalog#	Tested applications	Antibody type
Rat IL-1 beta	HA721836	ELISA(Cap)	Recombinant Rabbit mAb
Rat IL-1 beta	HA721837	ELISA(Det)	Recombinant Rabbit mAb
Rat IL-4	HA722104	ELISA(Cap)	Recombinant Rabbit mAb
Rat IL-4	HA722105	ELISA(Det)	Recombinant Rabbit mAb
Rat IL-6	HA721615	ELISA(Cap)	Recombinant Rabbit mAb
Rat IL-6	HA721616	ELISA(Det)	Recombinant Rabbit mAb
Rat TNF alpha	HA722170	ELISA(Cap)	Recombinant Rabbit mAb
Rat TNF alpha	HA722171	ELISA(Det)	Recombinant Rabbit mAb

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重组蛋白推荐

Product name	Catalog#	Source
Human CCL2/MCP1, Tag Free	HA210787	E.coli
Human CCL3/MIP-1, Tag Free	HA210901	HEK293
Human CCL5/RANTES, Tag Free	HA210998	HEK293
Human CD14, C-His Tag	HA211004	HEK293
Human CXCL10, C-Flag Tag	HA210740	HEK293
Human CXCL12/SDF-1, Tag Free	HA210900	HEK293
Human CYLD, C-His Tag	HA210704	E.coli
Human DKK1, C-His Tag	HA211040	HEK293
Human Endoglin/CD105, C-His Tag (ECD)	HA211006	HEK293
Human FGF Basic/FGF2, Tag Free	HA210834	E.coli
Human FGF2/b-FGF, C-His, Flag Tag	HA210582	E.coli
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 IGF1, Tag Free	HA210866	HEK293

Product name	Catalog#	Source
Human IL-1 alpha/IL1A, C-His, Flag Tag	HA210602	HEK293
Human IL-1 beta/IL1B, C-His Tag	HA210576	HEK293
Human IL-4, Tag Free	HA210763	HEK293
Human IL-4R, C-His, Tag (ECD)	HA210720	HEK293
Human IL-6, Tag Free	HA210797	HEK293
Human IL-10, Tag Free	HA210988	HEK293
Human IL-18, Tag Free	HA210779	E.coli
Human IL-33, C-His Tag	HA210539	E.coli
Human IP-10/CXCL10, Tag Free	HA210896	HEK293
Human LILRB1/CD85j/ILT2, C-His, Flag Tag (ECD)	HA210718	HEK293
Human LILRB2/CD85d/ILT4, C-His, Flag Tag (ECD)	HA210643	HEK293
Human LILRB4/ILT3, C-His, Flag Tag (ECD)	HA210719	HEK293
Human MAPK12, C-His Tag	HA210513	E.coli
Human M-CSF/CSF1 (33-190), Tag Free	HA210919	HEK293
Human MMP3, C-His, Flag Tag	HA210853	HEK293
Human Neuropilin-1/NRP1, C-His Tag (ECD)	HA211017	HEK293
Human Osteopontin/OPN, C-His Tag	HA210993	HEK293
Human Osteoprotegerin / TNFRSF11B, C-His Tag	HA210977	HEK293
Human PDGF-B, Tag Free	HA210859	HEK293
Human RAC1, C-Flag Tag	HA210758	E.coli
Human TGF-beta RII, Tag Free (ECD)	HA210555	HEK293
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 TREM2, N-Strep II, C-His Tag	HA210647	HEK293
Human TREM2, Tag Free	HA211052	HEK293
Human VCAM-1 / CD106, C-His Tag	HA210976	HEK293
Mouse CCL2, Tag Free	HA210775	HEK293
Mouse CCL3/MIP-1 alpha, Tag Free	HA210790	HEK293
Mouse FGFR3, N Strep II, C-His Tag (ECD)	HA210541	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

Product name	Catalog#	Source
Mouse IL-1 beta/IL1B, C-His Tag	HA210962	HEK293
Mouse IL-10, C-His, Flag Tag	HA210569	HEK293
Mouse IL-18, Tag Free	HA210940	E.coli
Mouse IL-33, Tag Free	HA210768	E.coli
Mouse IL-4, Tag Free	HA210902	HEK293
Mouse IL-6, Tag Free	HA210796	HEK293
Mouse MCSF/CSF-1, C-His Tag (ECD)	HA210725	HEK293
Mouse Osteopontin/OPN, Tag Free	HA210997	HEK293
Mouse PDGFBB, Tag Free	HA211037	HEK293
Mouse TNF-alpha, C-His, Flag Tag	HA210527	HEK293
Mouse TRANCE/RANK L/TNFSF11, N-GST, His Tag	HA210876	E.coli
Mouse TRANCE/RANK L/TNFSF11, Tag Free	HA210558	HEK293
Mouse TREM2, C-Strep II Tag (ECD)	HA210924	HEK293
Mouse VCAM-1/CD106, C-His Tag (ECD)	HA211043	HEK293
Rat IFN-gamma, C-His, Flag Tag	HA210577	HEK293
Rat IGF1, Tag Free	HA211009	HEK293
Rat IL-1 beta/IL1B, C-Flag Tag	HA210708	E.coli
Rat IL-4, C-His, Flag Tag	HA210759	HEK293
Rat IL-6, C-His, Flag Tag	HA210629	HEK293
Rat TNF-alpha, C-His, Flag Tag	HA210538	HEK293

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“重组蛋白” 产品信息



Case 1

标题：A human organoid drug screen identifies $\alpha 2$ -adrenergic receptor signaling as a therapeutic target for cartilage regeneration

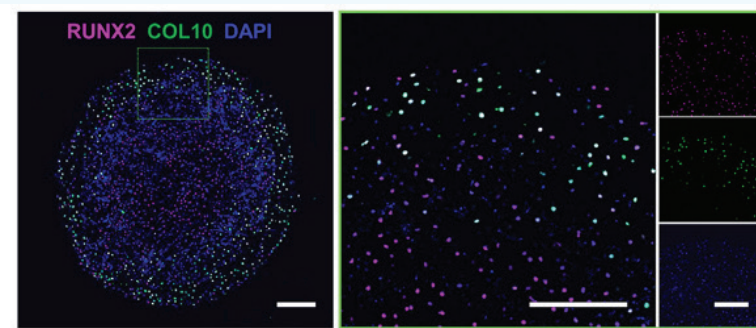
IF: 19.8

期刊：Cell Stem Cell. 2024 Dec 5;31 (12):1813-1830.e8.

产品名称：RUNX2 rabbit mAb | ET1612-47

应用：IF-Tissue

科研单位：南方医科大学



Representative immunofluorescence images of cryosections from day 42 organoids. Scale bars, 200 μm.

Case 2

标题：Biomimetic zwitterionic copolymerized chitosan as an articular lubricant

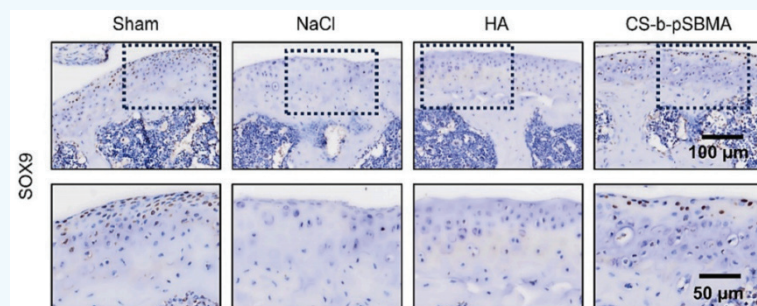
IF: 11.2

期刊：Carbohydrate Polymers 330. (2024) 121821.

产品名称：SOX9 rabbit mAb | ET1611-56

应用：IHC-P

科研单位：温州医科大学



Representative images of SOX9 protein immunohistochemical staining.

Case 3

标题：Cell surface patching via CXCR4-targeted nanothreads for cancer metastasis inhibition

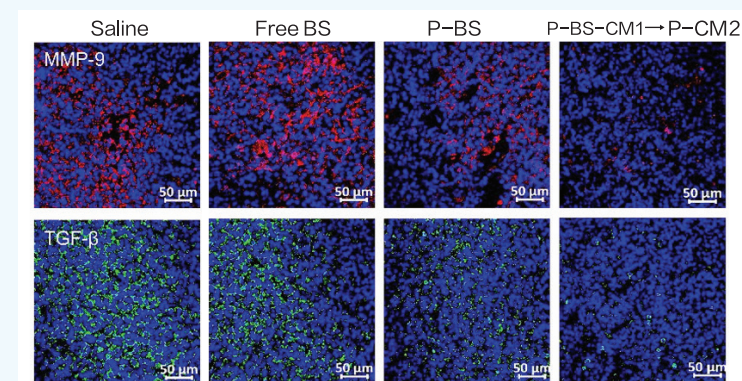
IF: 16.6

期刊：Nat Commun. 2024 Mar 29;15(1):2763.

产品名称：TGF beta 1 rabbit mAb | HA721143

应用：IF-Cell

科研单位：四川大学



Immunofluorescence staining and semi-quantitative analysis of typical EMT promoting factors (MMP-9 and TGF-β) of CXCR4 downstream in tumor tissues of mice on day 28, after treatments with three cycles of free BS, P-BS, and P-BS-CM1→P-CM2 (24 h time lag) on day 7, 14, and 21.

Case 4

标题：CD147-K148me2-Driven Tumor Cell-Macrophage Crosstalk Provokes NSCLC Immunosuppression via the CCL5/CCR5 Axis

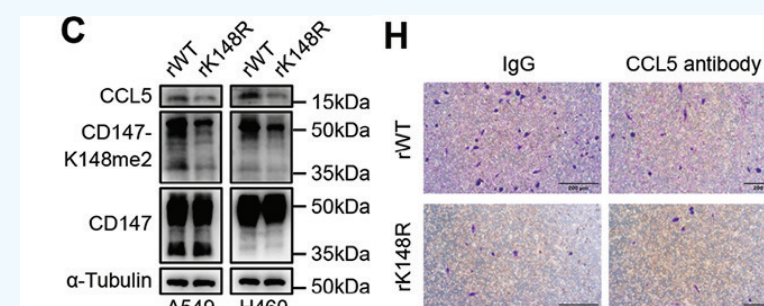
IF: 15.1

期刊：Adv Sci (Weinh). 2024 Aug;11(29):e2400611.

产品名称：RANTES rabbit mAb | ET1705-70

应用：WB, IHC-P

科研单位：第四军医大学



C. The expression levels of CD147, CD147-K148me2, and CCL5 were determined in the rWT and rK148R cells (A549 and H460) by western blot analyses; H. A cell chemotaxis assay was conducted by co-incubation of M2-like macrophages and A549-rWT or A549-rK148R cells with IgG or CCL5 antibody, scale bar, 200 μm.

Case 5

标题: Hypoxia Reversion and STING Pathway Activation through Large Mesoporous Nanozyme for Near-Infrared-II Light Amplified Tumor Polymetallic-Immunotherapy

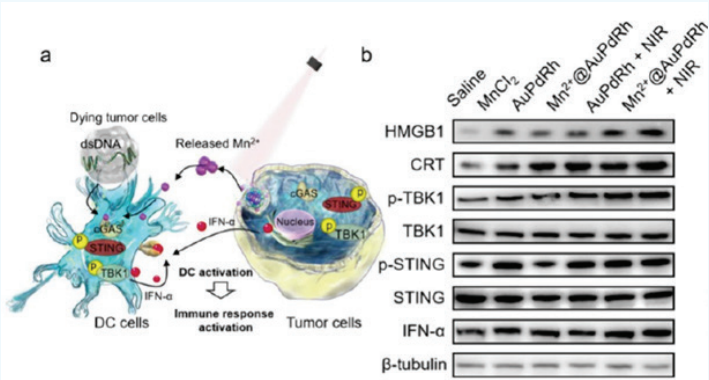
IF: 15.8

期刊: ACS Nano. 2024,18,33,22153-22171.

产品名称: IFNAR1 rabbit mAb | ET1602-37

应用: WB

科研单位: 河北工业大学



b. Protein expression level of DAMPs (HMGB1 and CRT) and markers related to the cGAS/STING pathway (STING, p-STING, TBK1, p-TBK1, and IFN-α) in tumors following treatment with various groups.