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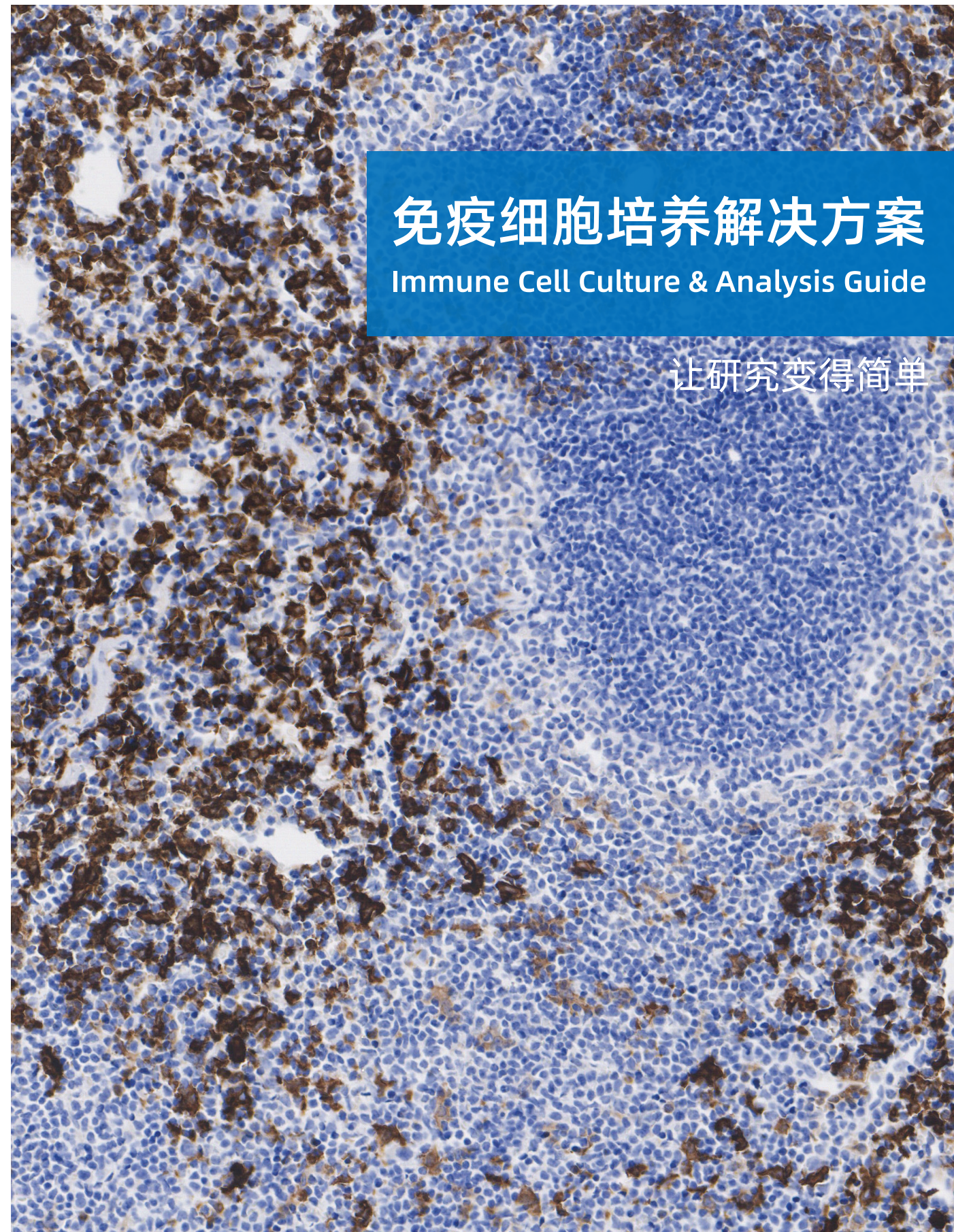
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免疫细胞培养解决方案

Immune Cell Culture & Analysis Guide

让研究变得简单

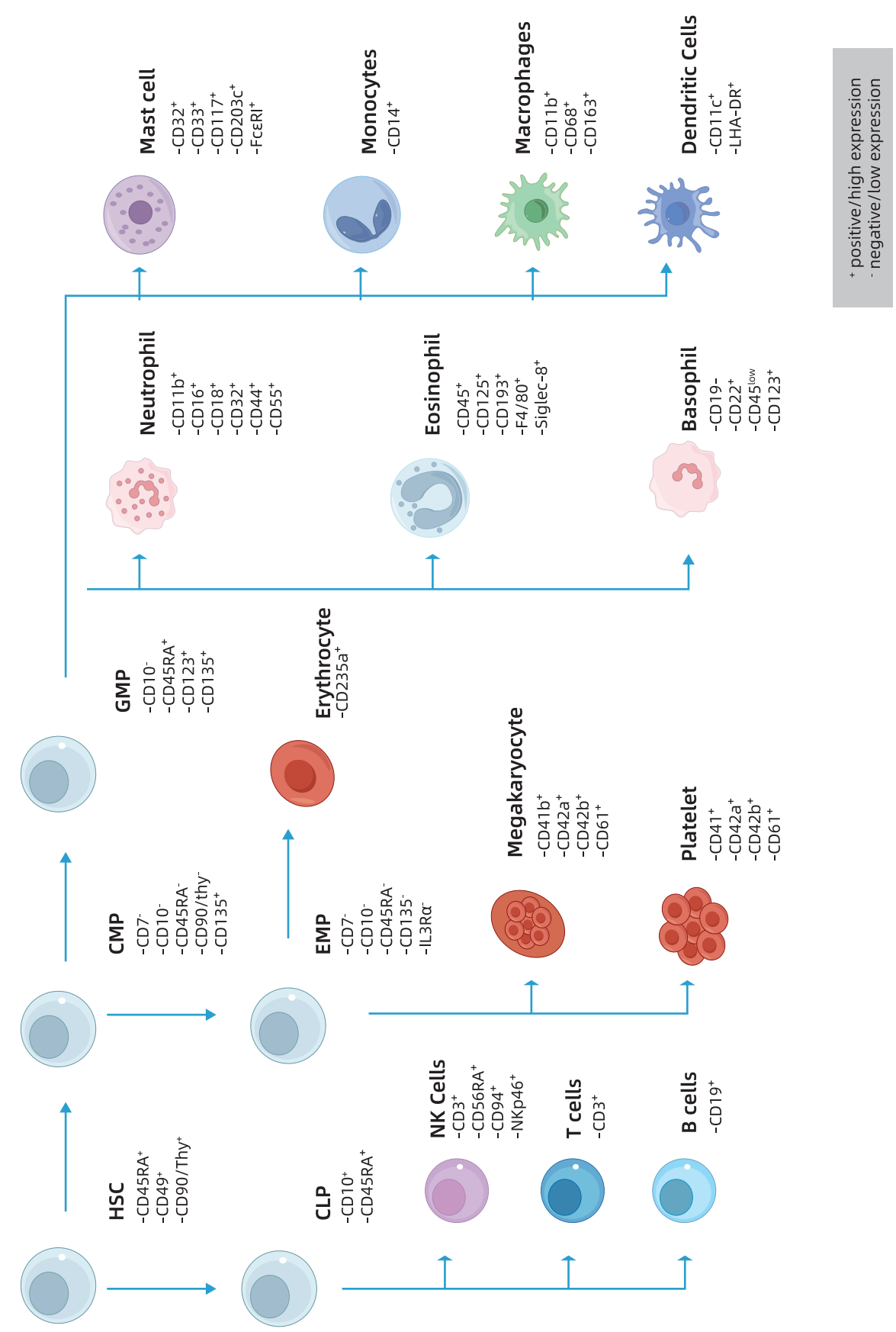
 华安生物
H U A B I O

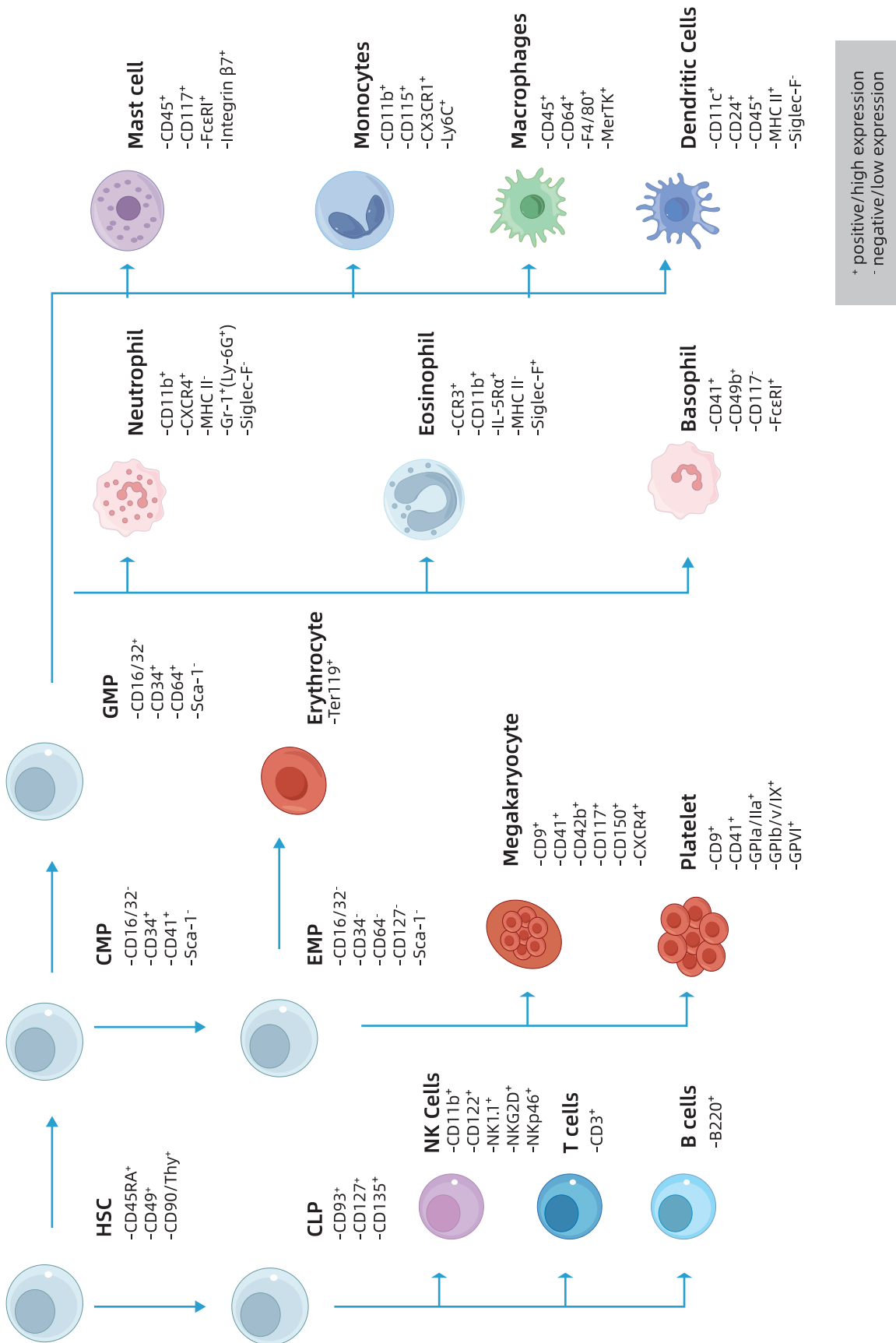
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Human Immune Cell Marker Guide

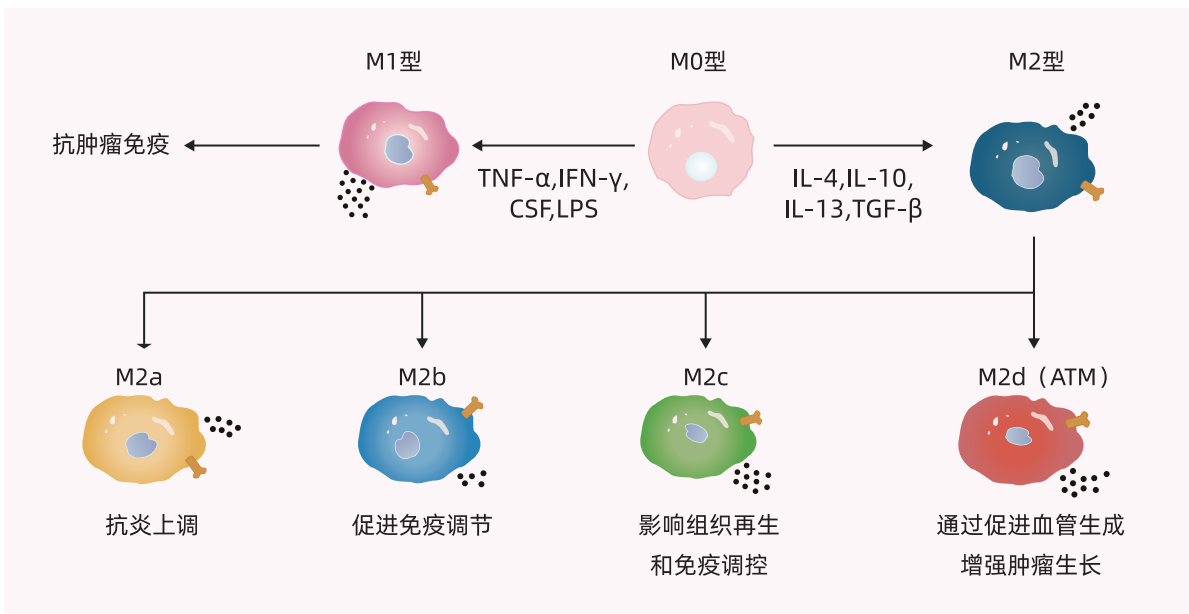




巨噬细胞 (Macrophages) 培养

作为自然免疫调控领域的“明星”，巨噬细胞在维持组织稳态以及组织修复和重塑过程中发挥重要作用。然而，当其介导的免疫调控和代谢重塑功能失衡，会引发许多疾病，包括代谢性疾病、自身免疫性疾病、神经退行性疾病、癌症等。

一般来说，巨噬细胞根据其功能和活化作用分为两种亚型：经典活化的M1巨噬细胞和替代活化的M2巨噬细胞。M1型巨噬细胞通常由LPS、GM-CSF、TNF-α和IFN-γ活化，主要在Th1细胞募集、病原体抵抗和肿瘤控制中发挥调控作用。M2型巨噬细胞通常由M-CSF、IL-13、TGF-β、IL-4、IL-33和IL-25替代活化，主要作用是抑制炎症和组织损伤修复。



巨噬细胞极化的主要类型及其调控作用

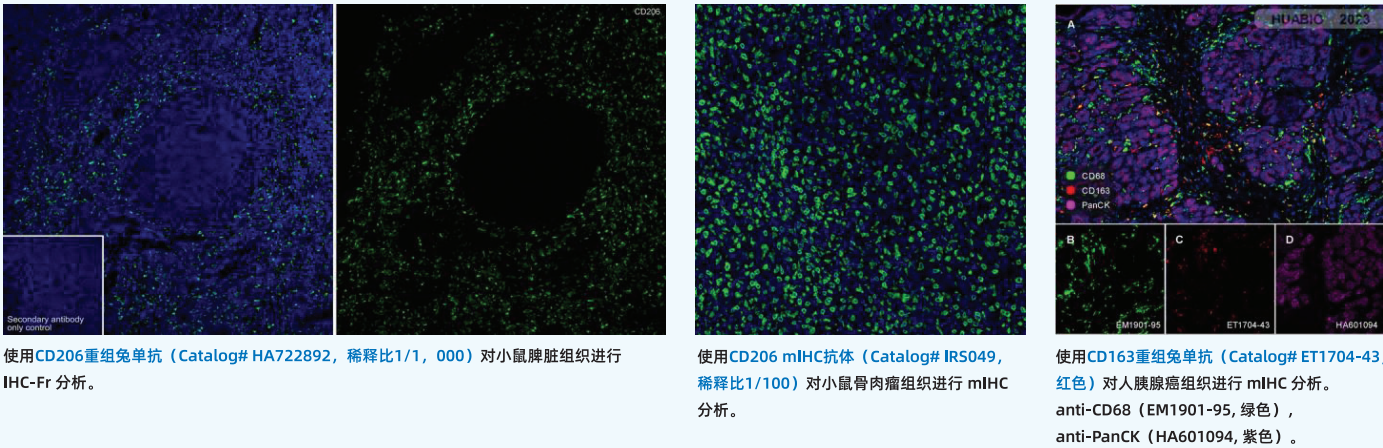
M1型巨噬细胞极化鉴定

使用CD11c重组兔单抗 (Catalog# HA722830, 稀释比1/1,000) 对小鼠结肠组织进行 IHC-Fr 分析。

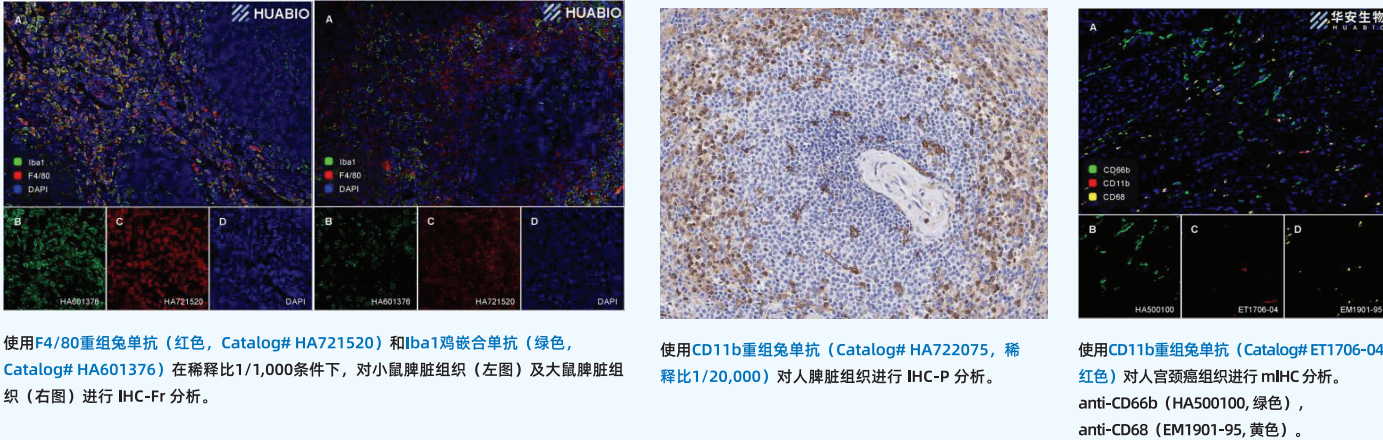
使用HLA-DR重组兔单抗 (Catalog# HA601252, 稀释比1:1,000) 对人肺癌组织进行 IHC-P 分析。

使用iNOS重组兔单抗抗体 (Catalog# HA722031, 稀释比1:100) 对经LPS处理的RAW264.7细胞进行 IF-Cell 分析。

M2型巨噬细胞极化鉴定



F4/80抗体特异性标记脾脏组织中的巨噬细胞



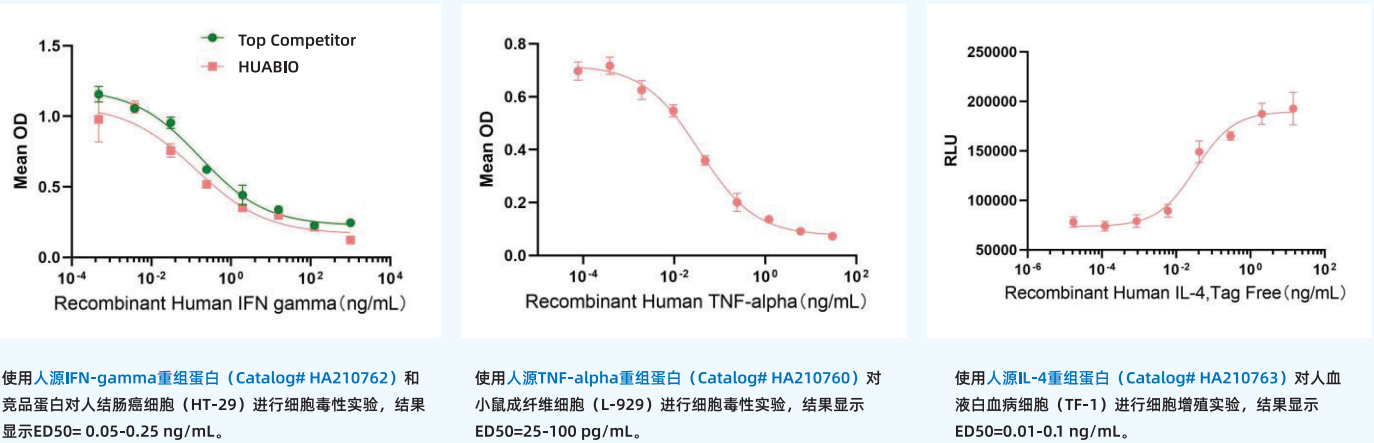
抗体小包装产品推荐

Mouse Reactive M1 vs M2 Macrophage Antibody Sampler Kit | HAK21096

Contains product	Quantity	Tested applications	Reactivity	MW(kDa)
F4/80 [HA721520]	20 ul	WB,IHC-P,IF-Tissue,IHC-Fr,mIHC	Ms,R	102 kDa
CD68 [HA722285]	20 ul	WB,IF-Cell,IHC-P,IHC-Fr,IF-Tissue	Ms,R	35 kDa
CD86 [ET1606-50]	20 ul	WB,IF-Cell,IP	H,Ms,R	38 kDa
CD11c [HA722830]	20 ul	WB,IHC-P,IHC-Fr,IF-Tissue	Ms	129 kDa
Mannose Receptor(CD206) [HA722892]	20 ul	WB,IHC-P,IF-Tissue,IHC-Fr,IF-Cell,IP,mIHC	Ms,R	165 kDa
Liver Arginase [HA723143]	20 ul	WB, IHC-P, IF-Tissue	H,Ms,R	35 kDa
Iba1 [ET1705-78]	20 ul	WB,IHC-P,FC,IP,IF-Cell,IF-Tissue,IHC-Fr,mIHC	H,Ms,R	17 kDa
HRP-Goat Anti-Rabbit IgG (H+L) [HA1001]	100 ul	WB,ELISA,IHC-P	Rb	

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

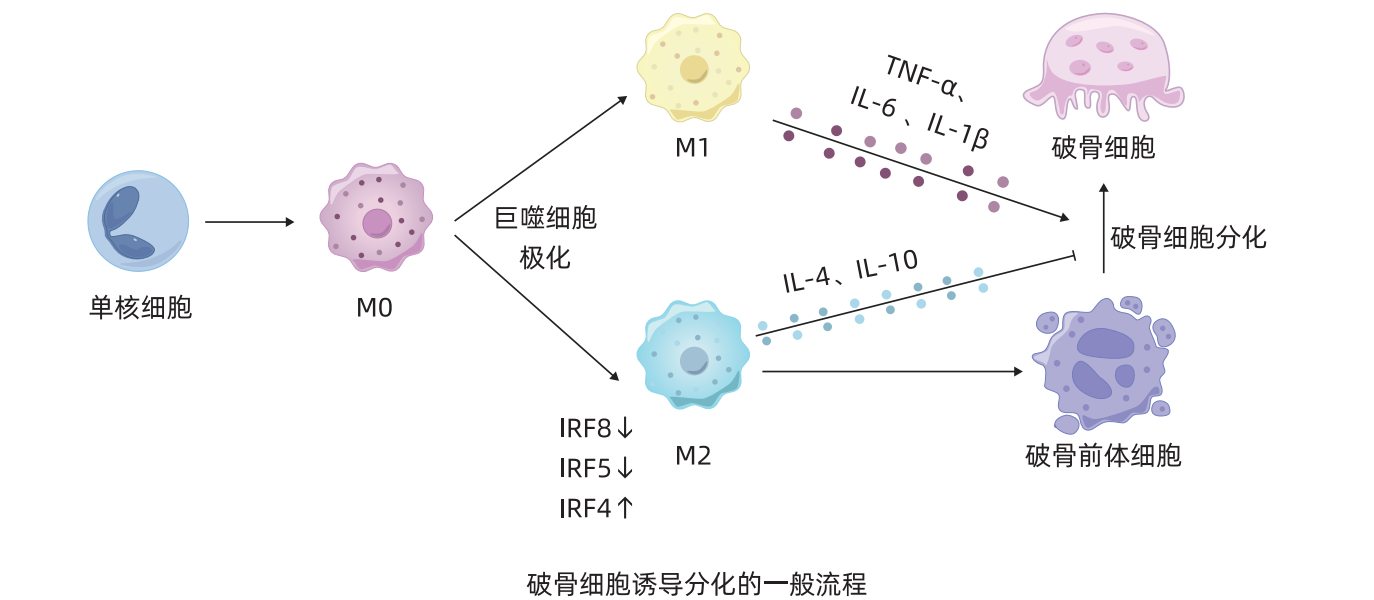
巨噬细胞培养与分化 & 爆款蛋白产品推荐

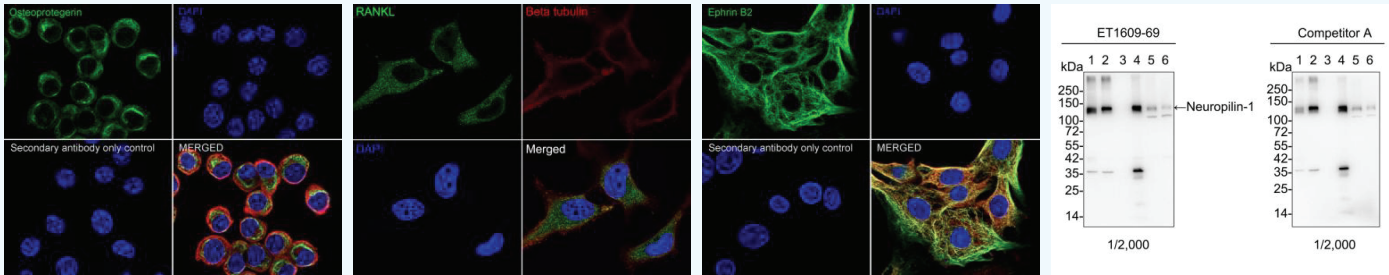


破骨细胞 (Osteoclast) 培养

巨噬细胞介导的骨免疫调控作用在骨再生过程发挥关键性作用。由骨髓HSC主导并通过连续分化过程形成的巨噬细胞, 经过M1、M2分泌的细胞因子动态调控, 从而产生破骨细胞。破骨细胞在骨再生中的调控作用已经成为新型骨再生材料的研发与临床应用研究领域的热点。

M1通过分泌多种细胞因子 (如TNF- α 、IL-6和IL-1 β 等), 调控巨噬细胞诱导的破骨前体细胞向破骨细胞分化。同时, 分泌的促炎因子也间接地促进成骨细胞和其他基质细胞分泌RANKL, 从而刺激破骨细胞形成。虽然, M2分泌的相关细胞因子如IL-4、IL-10抑制破骨前体细胞形成破骨细胞, 但是M2本身较于M1更具有破骨细胞分化潜能, 更易融合形成破骨细胞。





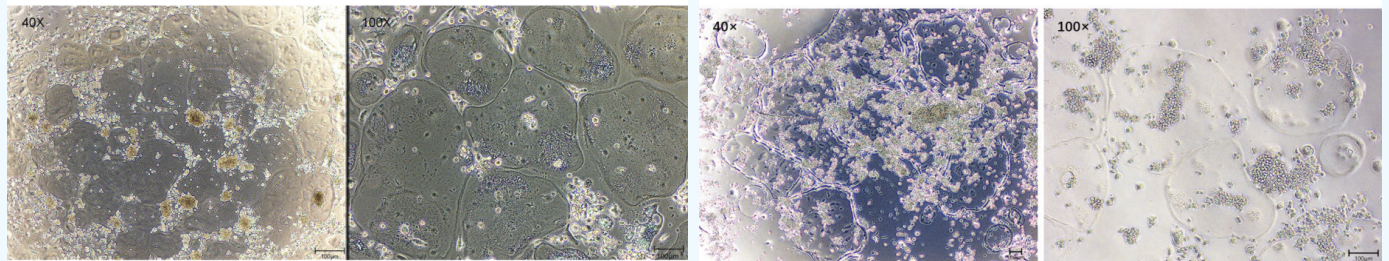
使用Osteoprotegerin兔多抗 (Catalog# R1608-4, 绿色) 对Neuro-2a细胞进行 IF-Cell 分析。肌动蛋白丝用Beta tubulin (M1305-2, 红色) 标记。

使用RANKL兔多抗 (Catalog# HA500369, 绿色) 对HeLa细胞进行 IF-Cell 分析。肌动蛋白丝用Beta tubulin (M1305-2, 红色) 标记。

使用Ephrin B2重组兔单抗 (Catalog# ET1705-33, 绿色) 对C6细胞进行 IF-Cell 分析。肌动蛋白丝用Beta tubulin (M1305-2, 红色) 标记。

使用Neuropilin 1重组兔单抗 (Catalog# ET1609-69) 和竞品A对不同类型的样本裂解液进行 WB 分析。

破骨细胞培养与分化 & 爆款蛋白产品推荐



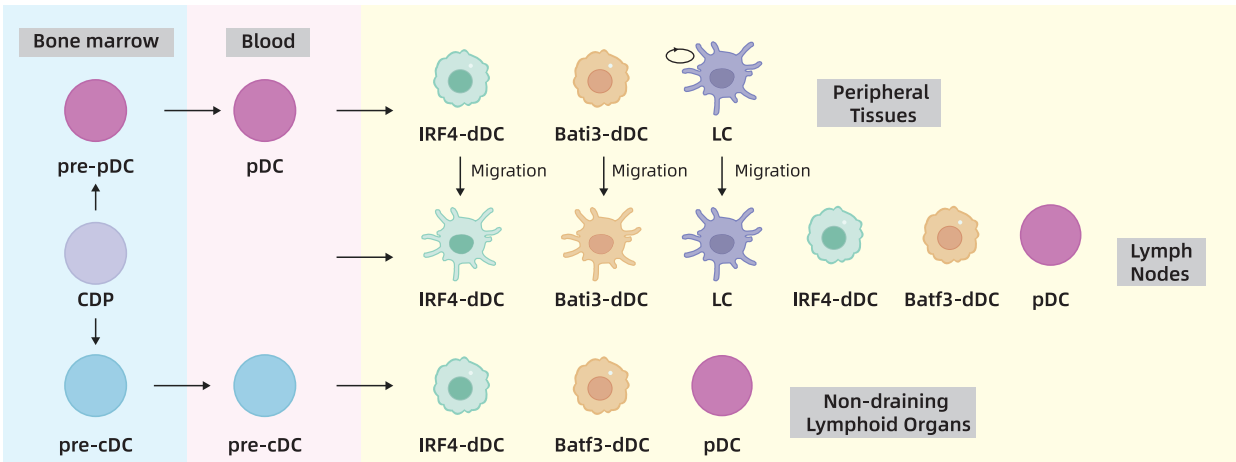
使用鼠源M-CSF (Catalog# HA210725, 40ng/mL) 重组蛋白和鼠源RANK L (Catalog# HA210876, 50ng/mL) 重组蛋白体外联合诱导小鼠骨髓源性巨噬细胞 (BMDM) 连续5天, 分化成破骨细胞。

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。

树突状细胞 (DCs) 培养

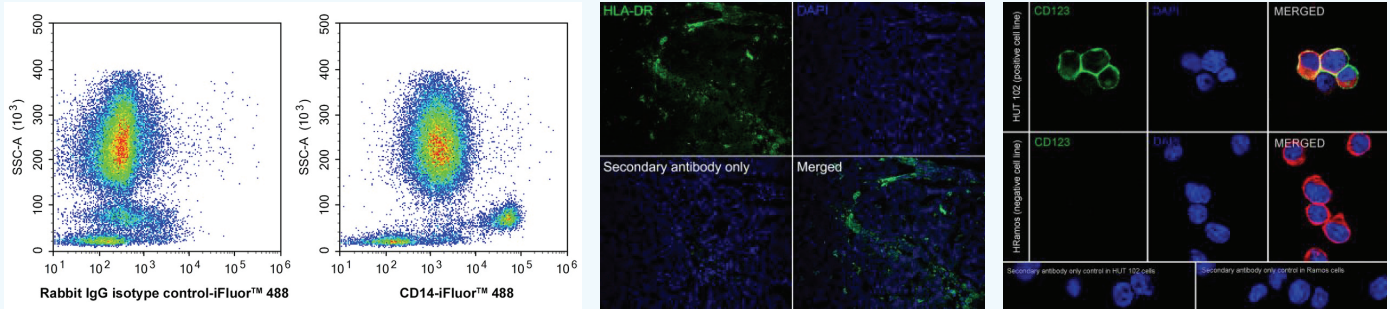
近年来, 树突状细胞在肿瘤免疫的调控作用已经成为研究热点, 当其在肿瘤微环境的功能失调或产生免疫耐受, 则产生免疫抑制, 促进肿瘤生长。当细胞接受病原和炎症信号, 树突状细胞会被激活及发育成熟。成熟的树突状细胞会表达MHC II类、共刺激分子和促炎细胞因子, 并迁移到次级淋巴组织的T细胞区, 激活抗原特异性T细胞, 完成抗原呈递的激活。

通常根据MHC I类和II类以及共刺激分子的表达上调和细胞因子分泌来评价鉴定树突状细胞的激活和成熟。



树突状细胞发育的一般流程及其主要分类

树突状细胞极化鉴定



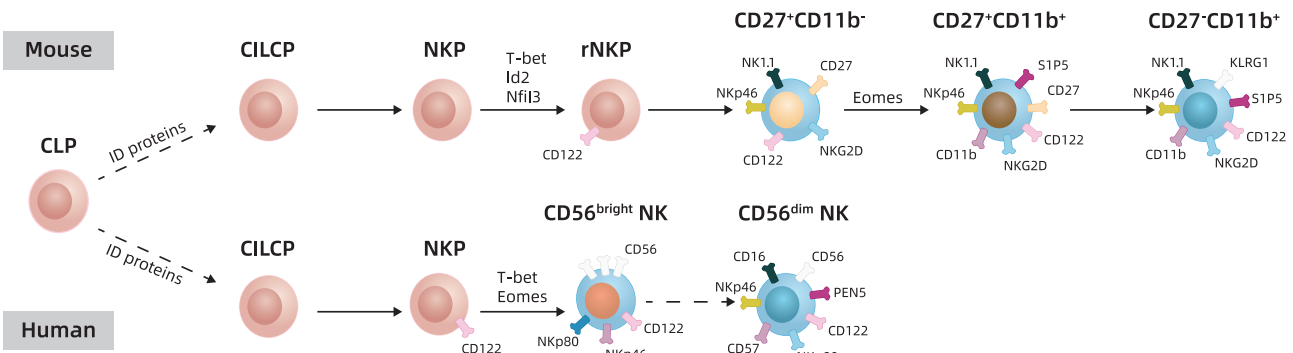
使用CD14重组兔单抗 (Catalog# ET1610-85, 稀释比1/1,000) 对外周血细胞进行 FC 分析。

使用HLA-DR 鼠单抗 (Catalog# HA601252, 稀释比 1/100) 对人胃癌组织进行 IF-Tissue 分析。

使用IL3RA / CD123重组兔单抗 (Catalog# HA723076, 绿色) 对HUT 102 (阳性) 和 Ramos (阴性) 细胞进行 IF-Cell 分析。肌动蛋白丝用Beta tubulin (HA601187, 红色) 标记。

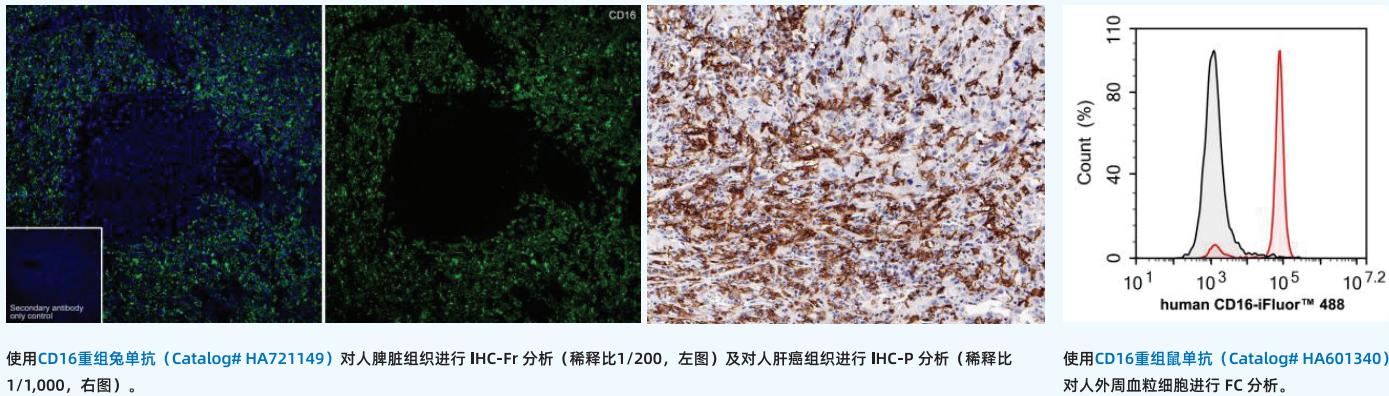
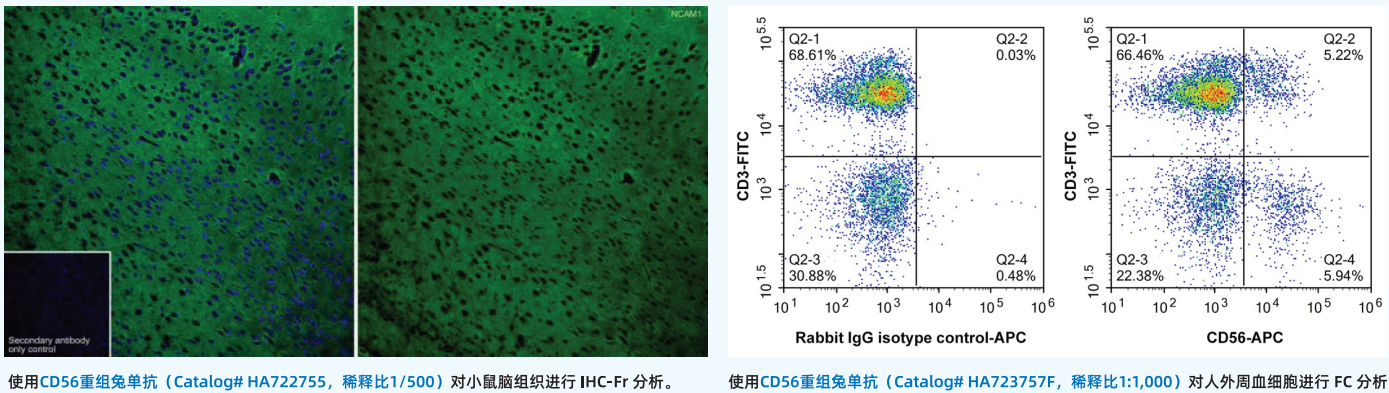
自然杀伤细胞 (NKs) 培养

作为肿瘤的“天然杀手”, NK细胞是免疫系统重要成员, 可以直接杀伤肿瘤细胞, 已经成为肿瘤免疫治疗领域的研究热点。NK细胞主要负责免疫监视肿瘤和病毒感染细胞, 其功能异常与肿瘤和慢性感染性疾病密切相关。

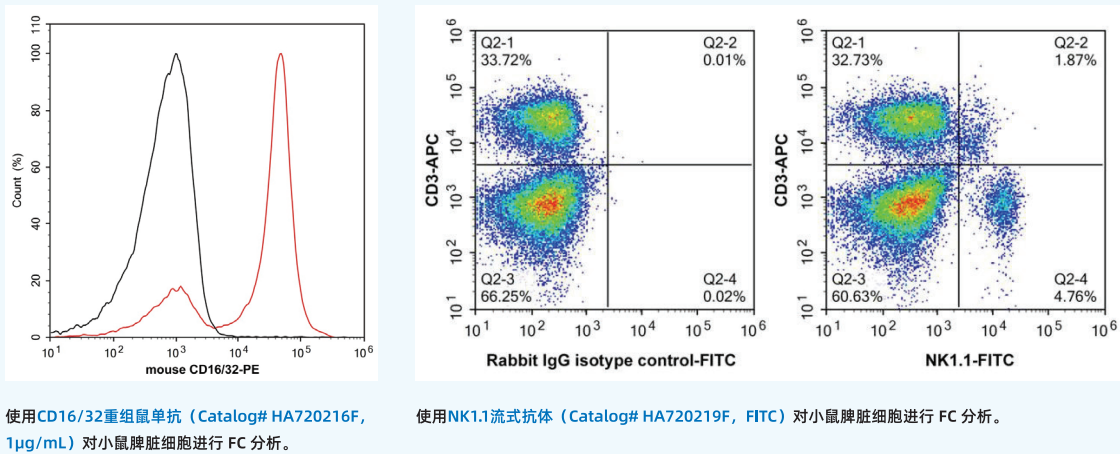


自然杀伤细胞发育的一般流程及其主要分类

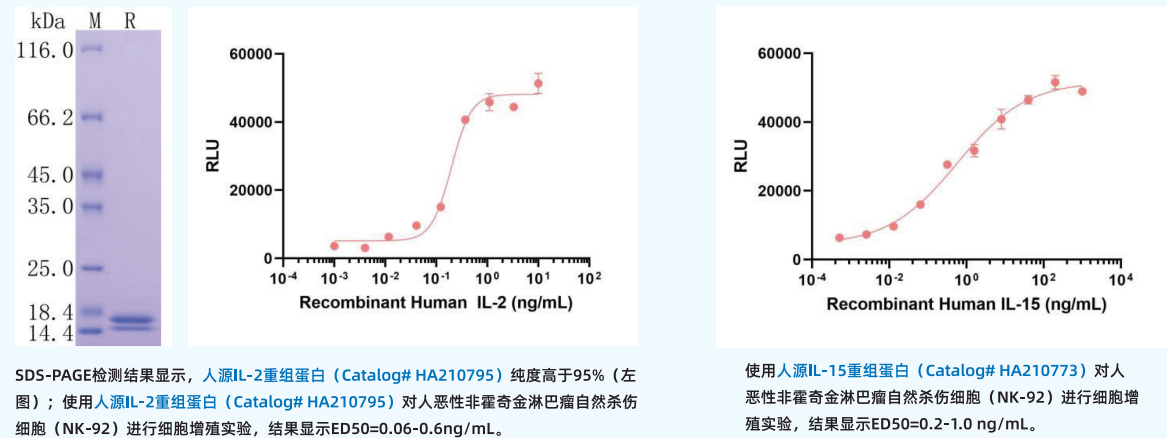
人源NK细胞极化鉴定



鼠源NK细胞极化鉴定



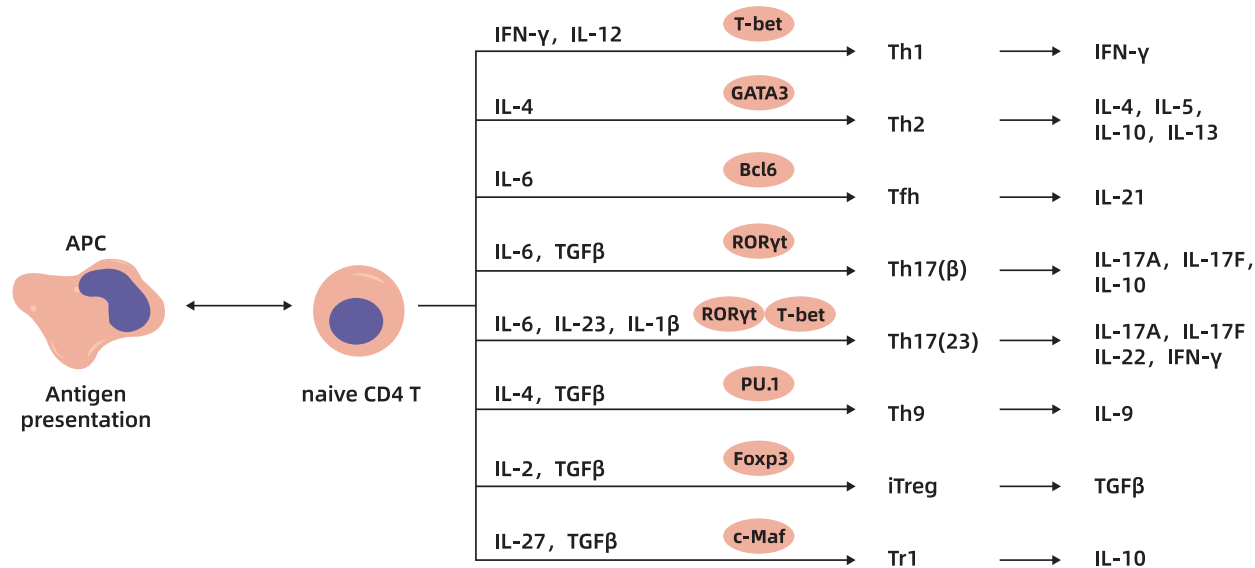
NK细胞培养与分化 & 爆款蛋白产品推荐



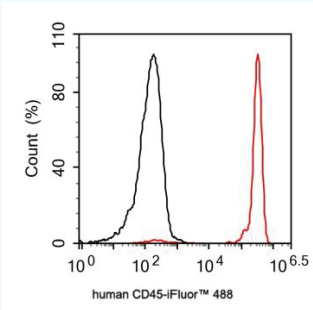
T细胞 (T cells) 培养

T淋巴细胞来源于骨髓的多能干细胞, 迁徙至胸腺分化成熟, 最终发育成具有免疫活性的T细胞。近年来, T细胞耗竭在肿瘤免疫、感染免疫、自身免疫中都发挥着重要作用, 成为多种疫苗及靶向治疗药物研发领域的研究热点。

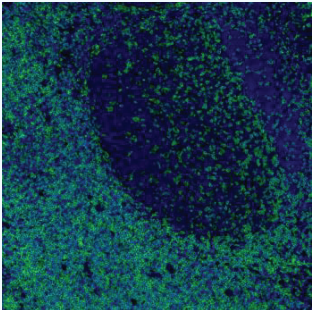
T细胞根据功能和表面标志可以分为CD8 T细胞, CD4 T细胞, Treg细胞及记忆 T细胞等。目前, 主要使用优质抗体标记不同类型T细胞表达的标记物, 实现进一步筛选和鉴定及后续的功能调控研究。



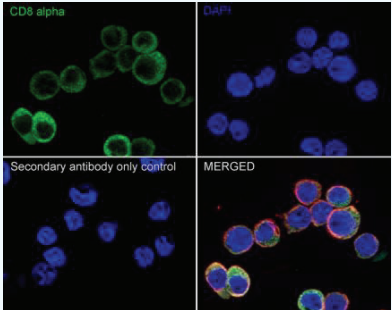
T细胞培养及分化的一般流程



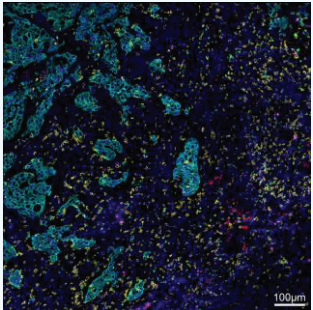
使用CD45重组鼠单抗 (Catalog# HA601285) 对外周血样本 (PBMC) 进行 FC 分析。



使用CD4 mIHC抗体 (Catalog# IRS005, 稀释比1/100) 对人扁桃体组织进行 mIHC 分析。



使用CD8 alpha 重组兔单抗 (Catalog# ET1606-31, 绿色) 对THP-1 细胞进行 IF-Cell 分析。肌动蛋白丝用Beta tubulin (M1305-2, 红色) 标记。

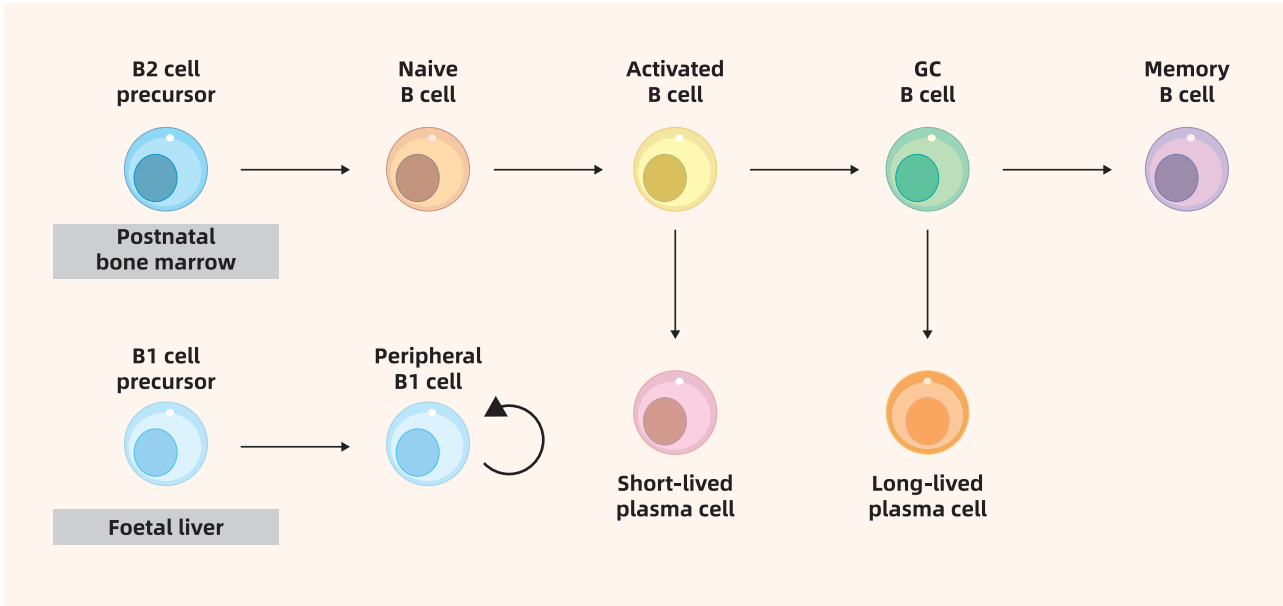


使用FOXP3 mIHC抗体 (Catalog# IRS008, 绿色) 对人肺癌组织进行mIHC分析。anti-CD57 (IRS027, 品红色), anti-MPO (IRS037, 红色), anti-CD8 (IRS037, 黄色), anti-panCK (IRS010, 青色)。

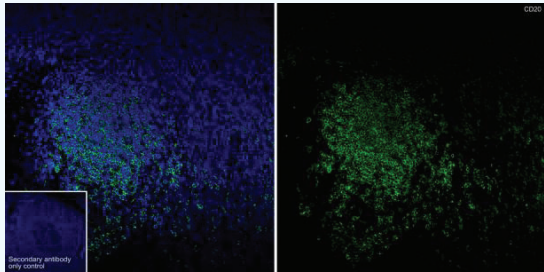
B细胞 (B cells) 培养

作为哺乳动物体内适应性免疫系统的关键组成部分，目前，B细胞在肿瘤微环境中受代谢-表观遗传网络信号的调控机制，已经成为多种疾病治疗的研究热点，包含肿瘤，感染，自身免疫性疾病及移植排斥等。

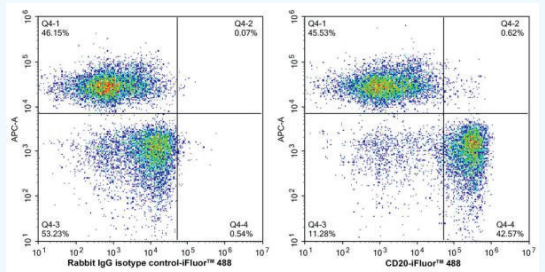
B细胞的发育和成熟主要发生在骨髓中，经由前体B细胞，最终发育成为成熟B细胞。通常使用优质抗体标记不同类型B细胞表达的标记物，实现进一步筛选和鉴定及后续的功能调控研究。



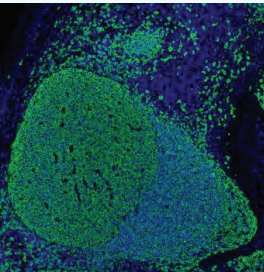
B细胞的活化及体外培养的一般流程



使用CD20重组兔单抗 (Catalog# ET1605-33) 对人扁桃体组织进行 IF-Tissue 分析。



使用CD20重组兔单抗 (Catalog# HA722953) 对外周血组织 (PBMC) 进行 FC 分析。



使用CD20 mIHC抗体 (Catalog# IRS003) 抗体对人扁桃体组织进行 mIHC 分析。

配套试剂

一抗产品

Product name	Catalog#	Reactivity	Tested applications	Antibody type
CD3	HA601110	H	WB,IHC-P	Recombinant Mouse mAb
CD3	HA720082	H	WB,IHC-P,IF-Tissue,IP,mIHC,IF-Cell	Recombinant Rabbit mAb
CD3 epsilon	ET1607-29	H	WB,IHC-P,IP,IF-Cell,IF-Tissue	Recombinant Rabbit mAb
Human CD3	HA601337	H	FC	Recombinant Mouse mAb
Mouse CD3	HA723347	Ms	FC	Recombinant Chimeric Antibody
CD7	HA720023	H	IHC-P	Recombinant Rabbit mAb
CD8 alpha	ET1606-31	H	WB,IF-Cell,IF-Tissue,IHC-P,FC	Recombinant Rabbit mAb
CD9	ET1601-9	H,Ms,R	WB,IF-Cell,IHC-P,IP,FC	Recombinant Rabbit mAb
CD10	ET1611-82	H,Ms,R	WB,FC,IHC-P,IF-Cell,IF-Tissue	Recombinant Rabbit mAb
CD10	HA722864	H	WB,IHC-P	Recombinant Rabbit mAb
CD11b	ET1706-04	H	WB,IP,IHC-P,IF-Cell,IF-Tissue,mIHC	Recombinant Rabbit mAb
CD11b	HA722075	H,Ms,R	WB,IHC-P,IF-Tissue	Recombinant Rabbit mAb
CD11b	HA722856	H,Ms,R	WB,IHC-Fr,IHC-P,IF-Tissue	Recombinant Rabbit mAb
CD11c	ET1606-19	H	WB,IHC-P,IP,mIHC	Recombinant Rabbit mAb
CD11c	HA722830	Ms	WB,IHC-P,IHC-Fr,IF-Tissue	Recombinant Rabbit mAb
CD14	ET1610-85	H,Ms	WB,IF-Cell,IHC-P,mIHC,FC	Recombinant Rabbit mAb
CD14	HA721321	H,Ms	WB,IHC-P	Recombinant Rabbit mAb
CD16	ET7109-97	H,Ms,R	WB	Recombinant Rabbit mAb

Product name	Catalog#	Reactivity	Tested applications	Antibody type
CD16	HA721149	H	WIHC-P,IF-Tissue,IF-Cell,mIHC	ReRecombinant Rabbit mAb
Human CD16	HA601340	H	FC	Recombinant Mouse mAb
CD18	ET1703-94	H	WB,IP	Recombinant Rabbit mAb
CD19	ET1702-74	H,Ms,R	WB,FC	Recombinant Rabbit mAb
CD19	ET1702-93	H	WB,IF-Cell,IF-Tissue,IHC-P,FC,mIHC	Recombinant Rabbit mAb
CD20	ET1605-33	H,Mk	WB,IHC-P,IF-Tissue,IF-Cell,FC,IP	Recombinant Rabbit mAb
CD20	HA722953	H	WB,IF-Cell,IHC-P,FC,IP	Recombinant Rabbit mAb
CD22	EM1902-13	H	WB,IHC-P,FC	Mouse mAb
CD22	HA721157	H	WB,IHC-P	Recombinant Rabbit mAb
CD24	0804-3	Ms,H,R	WB,IHC-P,FC	Rabbit pAb
CD32	ET1703-43	H	WB,IHC-P,IF-Cell,FC,IP	Recombinant Rabbit mAb
CD33	HA721826	H	WB,IF-Cell,FC	Recombinant Rabbit mAb
CD34	ET1606-11	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,mIHC,FC	Recombinant Rabbit mAb
CD34	HA601109	H	IHC-P	Recombinant Mouse mAb
CD41	ET1703-37	H	WB,IHC-P	Recombinant Rabbit mAb
CD41	HA722939	Ms	IHC-P,FC,IF-Cell	Recombinant Rabbit mAb
CD42b	EM1902-15	H	IHC-P,FC	Mouse mAb
CD44	ET1609-74	H	WB,IHC-P	Recombinant Rabbit mAb
CD44	HA722845	H,Ms,R	WB,IF-Cell,IHC-P,IF-Tissue,FC	Recombinant Rabbit mAb
CD45	ER1901-29	H	WB,IHC-P,FC	Rabbit pAb
CD45	ET7111-03	H	WB,IHC-P,FC,IF-Tissue,mIHC	Recombinant Rabbit mAb
Human CD45	HA601285	H	IF-Cell,FC	Recombinant Mouse mAb
Mouse CD45R	HA601385	Ms	IHC-P,FC	Recombinant Rat mAb
CD48	HA721371	H	WB,IHC-P	Recombinant Rabbit mAb
CD55	EM1902-42	H	WB,FC	Mouse mAb
CD55	HA722724	H	WB,IHC-P	Recombinant Rabbit mAb
NCAM1 / CD56	ET1702-43	H,Z	WB,IF-Cell,IF-Tissue,IHC-P,FC,IP,mIHC	Recombinant Rabbit mAb
NCAM1 / CD56	HA601126	H	IHC-P,WB	Recombinant Mouse mAb
NCAM1 / CD56	HA722755	H,Ms,R	WB,IHC-P,IHC-Fr,IF-Cell,FC,IF-Tissue	Recombinant Rabbit mAb
NCAM1 / CD56	HA723041	H	WB,IHC-P,IF-Tissue	Recombinant Rabbit mAb
CD64	HA601003	H	WB	Mouse mAb
CD68	EM1901-95	H	WB,IHC-P,FC,mIHC	Mouse mAb
CD68	HA601115	H	IHC-P,IF-Cell,FC,mIHC,IF-Tissue	Recombinant Mouse mAb

Product name	Catalog#	Reactivity	Tested applications	Antibody type
CD68	HA601290	H	WB,IF-Cell,IHC-P,FC	Recombinant Mouse mAb
CD127	HA721214	H,Ms	WB,IF-Cell,IHC-P,FC	Recombinant Rabbit mAb
CD163	EM1901-90	H	WB,IHC-P,FC	Mouse mAb
CD163	EM1901-91	H	IHC-P,FC	Mouse mAb
CD163	ET1704-43	H	WB,IHC-P,mIHC,IF-Tissue,IP	Recombinant Rabbit mAb
Mannose Receptor(CD206)	HA722892	Ms,R	WB,IHC-P,IF-Tissue,IHC-Fr,IF-Cell,IP,mIHC	Recombinant Rabbit mAb
CD42a	HA601019	H,Ms,R	WB,IHC-P	Mouse mAb
Human CD45RA	HA601341	H	FC,IF-Cell,IHC-P	Recombinant Mouse mAb
CD90 / THY1	ET1702-92	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IHC-Fr	Recombinant Rabbit mAb
RANKL	HA500369	H,Ms,R	WB,IF-Cell	Rabbit pAb
c-Kit	ET1609-60	H	WB,IHC-P	Recombinant Rabbit mAb
c-Kit	HA721154	H	IHC-P,WB,mIHC	Recombinant Rabbit mAb
F4/80	HA721520	Ms,R	WB,IHC-P,IF-Tissue,IHC-Fr,mIHC	Recombinant Rabbit mAb
F4/80	HA721745	Ms	WB,IHC-P,IF-Tissue	Recombinant Rabbit mAb
Flt3	ER2001-25	H,Ms,R	WB,IHC-P,FC,IF-Cell	Rabbit pAb
Glycophorin A	0806-7	H	WB,IF-Cell,IHC-P,FC	Rabbit pAb
Glycophorin A	HA721920	H	IHC-P,IF-Tissue	Recombinant Rabbit mAb
GM-CSF	HA601033	H	WB,ELISA	Mouse mAb
HLA-DR	ET1610-66	H,Ms,R	WB,IF-Cell,IHC-P,FC	Recombinant Rabbit mAb
IFN gamma Receptor beta	HA500246	H,Ms,R	WB,IF-Cell,IHC-P	Rabbit pAb
IFNGR2	HA500363	H,Ms,R	WB,IF-Cell	Rabbit pAb
IGF1R	HA600033	H	WB,FC	Mouse mAb
IGF1 Receptor beta	HA723368	H,Ms,R	WB,IF-Cell	Recombinant Rabbit mAb
Human IL-1 beta	HA721712	H	WB	Recombinant Rabbit mAb
IL-1 beta	ET1701-39	H	WB,IF-Cell,IF-Tissue,IHC-P,FC	Recombinant Rabbit mAb
IL-1 beta	HA601002	H,Ms,R	WB,ELISA,IF-Cell	Mouse mAb
IL-1 beta	HA601036	H,Ms,R	WB,ELISA,IHC-P	Recombinant Mouse mAb
IL-10	HA722032	H,Ms,R	WB,IF-Cell,IHC-P	Recombinant Rabbit mAb
IL-2	HA601015	H	WB,ELISA	Mouse mAb
IL-2	HA601016	H	WB,ELISA	Mouse mAb
IL-23	HA721037	H	WB,IHC-P	Recombinant Rabbit mAb
IL3RA / CD123	HA723076	H	WB,IF-Cell,IHC-P	Recombinant Rabbit mAb
IL-4	ER1706-55	H	WB,IF-Cell,IHC-P	Rabbit pAb

Product name	Catalog#	Reactivity	Tested applications	Antibody type
IL-4	ET1704-28	H	WB,IF-Cell,IF-Tissue,IHC-P	Recombinant Rabbit mAb
IL-5RA	HA500303	H	WB,IF-Cell,IHC-P	Rabbit pAb
Integrin alpha 2	ET1611-57	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC	Recombinant Rabbit mAb
Integrin alpha 4	ET1704-31	H,Ms,R	WB,IHC-P,FC	Recombinant Rabbit mAb
Integrin beta 3	ET1606-49	H,Ms	WB,IHC-P,IF-Tissue	Recombinant Rabbit mAb
Integrin beta 3	HA723085	H,Ms,R	WB,IHC-P	Recombinant Rabbit mAb
CCL2	HA500267	Ms,H	WB,FC	Rabbit pAb
CCL2/MCP1	HA500042	H	WB,IHC-P,IF-Cell	Rabbit pAb
CCL4/MIP-1 beta	HA721904	H,Ms	WB	Recombinant Rabbit mAb
Ly6c	HA500087	Ms	WB,IHC-P	Rabbit pAb
LY6A	ET1703-67	Ms	WB,IHC-P	Recombinant Rabbit mAb
NK1.1	HA722992	Ms	FC	Recombinant Rabbit mAb
NK1.1	HA722993	Ms	WB,IHC-P	Recombinant Rabbit mAb
ENPP3 / B10	HA722774	H,Ms,R	WB,IF-Cell,IHC-P	Recombinant Rabbit mAb
Neuropilin 1	ET1609-69	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP	Recombinant Rabbit mAb
Osteoprotegerin	R1608-4	H,Ms,R	WB,IF-Cell,IHC-P,FC	Rabbit pAb
PDGF B	HA722003	H,Ms,R	WB,IHC-P	Recombinant Rabbit mAb
Perforin	ER1803-77	H	WB,IF-Cell,IHC-P,FC	Rabbit pAb
Ephrin B2	ET1705-33	H,Ms,R	WB,IF-Cell	Recombinant Rabbit mAb
PLGF	EM1701-88	H,Ms,R	WB,IHC-P,IF-Cell	Mouse mAb
PLGF	EM1701-90	H,Ms,R	WB,IHC-P,IF-Cell	Mouse mAb
PLGF	ET1704-99	H,Ms,R	WB,IHC-P	Recombinant Rabbit mAb
TGF beta 1	HA721143	H,Ms,R	WB,IHC-P,IF-Tissue	Recombinant Rabbit mAb
VEGF Receptor 1	ET1605-11	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC	Recombinant Rabbit mAb

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

流式抗体

Product name	Catalog#	Conjugate	Antibody type
Human CD3	HA600116F	FITC	Mouse mAb
Human CD3	HA600117F	PE	Mouse mAb
Human CD3	HA600118F	APC	Mouse mAb
Mouse CD3	HA720199F	FITC	Rabbit mAb
Mouse CD3	HA720200F	PE	Rabbit mAb
Mouse CD3	HA720201F	APC	Rabbit mAb
Human CD4	HA600119F	FITC	Mouse mAb
Human CD4	HA600120F	PE	Mouse mAb
Human CD4	HA600121F	APC	Mouse mAb
Mouse CD4	HA720202F	FITC	Rabbit mAb
Mouse CD4	HA720203F	PE	Rabbit mAb
Mouse CD4	HA720204F	APC	Rabbit mAb
Human CD5	HA720211F	FITC	Rabbit mAb
Human CD8 alpha	HA600122F	FITC	Mouse mAb
Human CD8 alpha	HA600123F	PE	Mouse mAb
Human CD8 alpha	HA600124F	APC	Mouse mAb
Mouse CD8 alpha	HA720205F	FITC	Rabbit mAb
Mouse CD8 alpha	HA720206F	PE	Rabbit mAb
Mouse CD8 alpha	HA720207F	APC	Rabbit mAb
Human CD10	HA720209F	FITC	Rabbit mAb
Human CD11b	HA600130F	FITC	Mouse mAb
Human CD14	HA720194F	FITC	Rabbit mAb
CD15	HA720195F	FITC	Rabbit mAb
Human CD16	HA600129F	PE	Mouse mAb
Human CD33	HA720197F	FITC	Rabbit mAb
Human CD38	HA720196F	FITC	Rabbit mAb
human CD45	HA600109F	iFluor™ 488	Mouse mAb
Human CD45	HA600112F	FITC	Mouse mAb
Human CD45	HA600125F	FITC	Mouse mAb
Human CD45	HA600126F	PE	Mouse mAb
Human CD45	HA600127F	APC	Mouse mAb
Human CD45	HA600128F	Percp-Cy5.5	Mouse mAb

Product name	Catalog#	Conjugate	Antibody type
Human CD45RA	HA600131F	FITC	Mouse mAb
CD47	HA600104F	iFluor™ 488	Mouse mAb
Human CD58	HA720198F	FITC	Rabbit mAb
Human CD68	HA600132F	FITC	Mouse mAb
Human CD200	HA720208F	FITC	Rabbit mAb
Human CD200R1	HA720212F	FITC	Rabbit mAb
Mannose Receptor(CD206)	HA720214F	FITC	Rabbit mAb
Mouse CD16/32	HA720216F	PE	Rabbit mAb
Human CD56 (NCAM1)	HA720215F	PE	Rabbit mAb
NK1.1	HA720219F	FITC	Rabbit mAb
Mouse PD-L1	HA720213F	FITC	Rabbit mAb
Mouse IgG1	HA600113F	FITC	Mouse mAb
Mouse IgG1	HA600114F	PE	Mouse mAb
Mouse IgG1	HA600115F	APC	Mouse mAb
Rabbit IgG	HA720191F	FITC	Rabbit mAb
Rabbit IgG	HA720192F	PE	Rabbit mAb
Rabbit IgG	HA720193F	APC	Rabbit mAb

mIHC抗体

Product name	Catalog#	Species reactivity	Antibody type
CD3	IRS022	Human	Recombinant Rabbit mAb
CD3	IRS074	Mouse	Recombinant Rabbit mAb
CD4	IRS005	Human	Recombinant Rabbit mAb
CD4	IRS051	Mouse	Recombinant Rabbit mAb
CD8a	IRS007	Human	Mouse mAb
CD11b	IRS014	Human	Recombinant Rabbit mAb
CD11c	IRS001	Human	Recombinant Rabbit mAb
CD14	IRS015	Human	Recombinant Rabbit mAb
CD16	IRS017	Human	Recombinant Rabbit mAb

Product name	Catalog#	Species reactivity	Antibody type
CD19	IRS018	Human	Recombinant Rabbit mAb
CD20	IRS003	Human	Recombinant Rabbit mAb
CD21	IRS019	Human	Recombinant Rabbit mAb
CD23	IRS021	Human	Recombinant Rabbit mAb
CD31	IRS023	Human	Mouse mAb
CD31	IRS075	Mouse	Recombinant Rabbit mAb
CD34	IRS024	Human	Recombinant Rabbit mAb
CD34	IRS050	Mouse	Recombinant Rabbit mAb
CD38	IRS006	Human	Recombinant Rabbit mAb
CD45	IRS025	Human	Recombinant Rabbit mAb
CD45R	IRS076	Mouse	Rat mAb
CD57	IRS027	Human	Recombinant Mouse mAb
CD68	IRS004	Human	Recombinant Mouse mAb
CD163	IRS002	Human	Recombinant Rabbit mAb
c-Kit	IRS013	Human	Recombinant Rabbit mAb
CTLA-4	IRS016	Human	Recombinant Rabbit mAb
F4/80	IRS052	Mouse	Recombinant Rabbit mAb
FOXP3	IRS008	Human	Recombinant Rabbit mAb
FOXP3	IRS053	Mouse	Recombinant Rabbit mAb
Granzyme B	IRS032	Human	Rabbit pAb
Granzyme B	IRS054	Mouse	Rabbit pAb
HER2 / ErbB2	IRS034	Human	Recombinant Rabbit mAb
HLA-DQA1	IRS035	Human	Recombinant Rabbit mAb
HLA-DQA1	IRS062	Mouse	Recombinant Rabbit mAb
HNF-4-alpha	IRS055	Mouse	Recombinant Rabbit mAb
Human TNF alpha	IRS040	Human	Recombinant Rabbit mAb
IL-17A	IRS056	Mouse	Rabbit pAb
LAG-3	IRS020	Human	Recombinant Rabbit mAb
Mannose Receptor(CD206)	IRS049	Mouse	Recombinant Rabbit mAb
Mast Cell Tryptase	IRS041	Human	Recombinant Rabbit mAb
NCAM1 / CD56	IRS026	Human	Recombinant Rabbit mAb
PD-L1	IRS009	Human	Recombinant Rabbit mAb
PD-L1	IRS059	Mouse	Recombinant Rabbit mAb

Product name	Catalog#	Species reactivity	Antibody type
IM 3	IRS077	Human	Recombinant Rabbit mAb
TTF1	IRS042	Human	Recombinant Rabbit mAb
TTF1	IRS063	Mouse	Recombinant Rabbit mAb
Wilms Tumor Protein	IRS072	Mouse	Recombinant Rabbit mAb

TSA染色试剂盒

Catalog#	Product name	Test	Tested applications	Secondary antibody
MH900205	IRISKit® HyperView mTSA Kit-三标四色	20T	miHC	2 Rabbits + 1 Mouse
MH900206	IRISKit® HyperView mTSA Kit-三标四色	20T	miHC	2 Mice + 1 Rabbit
MH900207	IRISKit® HyperView mTSA Kit-三标四色	20T	miHC	3 Rabbits
MH900208	IRISKit® HyperView mTSA Kit-三标四色	20T	miHC	3 Mice

ELISA Kits

Interleukins(ILs)			
Target name	Product name	Catalog#	Sensitivity
IL-1β	Human IL-1β ELISA kit	EH0006	0.77 pg/ml (10 μl)
	Mouse IL-1β ELISA kit	EM0029	0.91 pg/ml (10 μl)
	Rat IL-1β ELISA kit	ER0001	1.24 pg/ml (50 μl)
IL-2	Human IL-2 ELISA kit	EH0013	1.67 pg/ml (50 μl) ; 3.08 pg/ml (10 μl)
	Mouse IL-2 ELISA kit	EM0002	0.16 pg/ml (10 μl)
	Rat IL-2 ELISA kit	ER0002	8.13 pg/ml (50 μl)
IL-3	Human IL-3 ELISA kit	EH0050	3.74 pg/ml (50 μl); 20.64 pg/ml (10 μl)
	Human IL-4 ELISA kit	EH0007	0.03 pg/ml (50 μl) ; 0.28 pg/ml (10 μl)
IL-4	Mouse IL-4 ELISA kit	EM0003	0.35 pg/ml (10 μl)
	Rat IL-4 ELISA kit	ER0003	17.29 pg/ml (50 μl)
IL-5	Human IL-5 ELISA kit	EH0008	0.15 pg/ml (50 μl) ; 0.73 pg/ml (10 μl)
	Mouse IL-5 ELISA kit	EM0023	0.24 pg/ml (10 μl)
IL-6	Human IL-6 ELISA kit	EH0001	0.26 pg/ml (50 μl) ; 0.43 pg/ml (10 μl)
	Mouse IL-6 ELISA kit	EM0004	0.29 pg/ml (10 μl)
	Rat IL-6 ELISA kit	ER0004	7.05 pg/ml (50 μl)
IL-7	Human IL-7 ELISA kit	EH0045	0.62 pg/ml (50 μl)
IL-8/CXCL8	Human IL-8/CXCL8 ELISA kit	EH0014	1.45 pg/ml (50 μl) ; 3.63 pg/ml (10 μl)

Interleukins(ILs)			
Target name	Product name	Catalog#	Sensitivity
IL-9	Mouse IL-9 ELISA kit	EM0022	0.10 pg/ml (10 μl)
	Human IL-10 ELISA kit	EH0009	0.89 pg/ml (10 μl)
IL-10	Mouse IL-10 ELISA kit	EM0005	5.75 pg/ml (10 μl)
	Rat IL-10 ELISA kit	ER0005	5.76 pg/ml (50 μl)
IL-12/IL-23 p40	Human IL-12 / IL-23 p40 ELISA kit	EH0072	13.59 pg/ml (50 μl); 37.7 pg/ml (10 μl)
	Mouse IL-12/IL-23 p40 ELISA kit	EM0012	1.50 pg/ml (10 μl)
IL-12p70	Human IL-12p70 ELISA kit	EH0021	3.42 pg/ml (50 μl) ; 11.63 pg/ml (10 μl)
	Mouse IL-12p70 ELISA kit	EM0006	5.50 pg/ml (10 μl)
IL-13	Human IL-13 ELISA kit	EH0049	101.81 pg/ml (50 μl); 223.66 pg/ml (10 μl)
	Mouse IL-13 ELISA kit	EM0007	0.37 pg/ml (10 μl)
IL-15	Human IL-15 ELISA kit	EH0031	0.14 pg/ml (50 μl) ; 0.79 pg/ml (10 μl)
IL-17A	Human IL-17A ELISA kit	EH0004	0.26 pg/ml (50 μl) ; 0.65 pg/ml (10 μl)
	Mouse IL-17A ELISA kit	EM0008	0.25 pg/ml (10 μl)
IL-17E	Human IL-17E ELISA kit	EH0066	0.69 pg/ml (50 μl); 1.45 pg/ml (10 μl)
	Mouse IL-17E ELISA kit	EM0028	12.33 pg/ml (50 μl)
IL-18	Human IL-18 ELISA kit	EH0053	1.38 pg/ml (50 μl); 2.13 pg/ml (10 μl)
	Mouse IL-18 ELISA kit	EM0034	1.46 pg/ml (10 μl)
IL-21	Human IL-21 ELISA kit	EH0018	21.7 pg/ml (50 μl) ; 67.9 pg/ml (10 μl)
	Mouse IL-21 ELISA kit	EM0020	10.79 pg/ml (10 μl)
IL-22	Mouse IL-22 ELISA kit	EM0021	11.2 pg/ml (10 μl)
	Human IL-22 ELISA Kit	EH0086	0.03 pg/ml (50 μl); 0.21 pg/ml (10 μl)
IL-33	Human IL-33 ELISA kit	EH0047	0.76 pg/ml (50 μl); 1.25 pg/ml (10 μl)
	Mouse IL-33 ELISA kit	EM0033	0.33 pg/ml (10 μl)
Colony-stimulating Factors (CSFs)			
Target name	Product name	Catalog#	Sensitivity
GM-CSF	Human GM-CSF ELISA Kit	EH0051	3.57 pg/ml (50 μl); 5.45 pg/ml (10 μl)
GM-CSF/CSF2	Mouse GM-CSF/CSF2 ELISA Kit	EM0011	0.19 pg/ml (10 μl)
Tumor Necrosis Factors(TNFs)			
Target name	Product name	Catalog#	Sensitivity
TNF-α	Human TNF-α ELISA Kit	EH0002	0.21 pg/ml (50 μl) ; 0.26 pg/ml (10 μl)
	Mouse TNF-α ELISA Kit	EM0010	0.097 pg/ml (10 μl)
	Rat TNF-α ELISA Kit	ER0007	0.16 pg/ml (50 μl); 1.51 pg/ml (10 μl)

Chemokines and Receptors			
Target name	Product name	Catalog#	Sensitivity
CCL2/MCP-1	Mouse CCL2/MCP-1 ELISA kit	EM0025	1.78 pg/ml (10 µl)
CCL20/ MIP3	Human CCL20/MIP-3 alpha ELISA kit	EH0028	8.58 pg/ml (50 µl) ; 12.19 pg/ml (10 µl)
CCL3/MIP-1 alpha	Mouse CCL3/MIP-1 alpha ELISA kit	EM0031	0.51 pg/ml (10 µl)
CCL5/RANTES	Human CCL5/RANTES ELISA kit	EH0027	2.78 pg/ml (50 µl) ; 4.12 pg/ml (10 µl)
	Mouse CCL5 / RANTES ELISA kit	EM0032	1.86 pg/ml (10 µl)
CXCL1/GRO alpha	Human CXCL1/GRO alpha ELISA kit	EH0054	14.89 pg/ml (50 µl); 32.67 pg/ml (10 µl)
CXCL1/KC	Mouse CXCL1/KC ELISA kit	EM0017	2.11 pg/ml (10 µl)
CXCL10/IP-10	Human CXCL10/IP-10 ELISA kit	EH0026	0.33 pg/ml (50 µl) ; 1.14 pg/ml (10 µl)
CXCL10/IP-10/CRG-2	Mouse CXCL10/IP-10/CRG-2 ELISA kit	EM0014	213.35 pg/ml (10 µl)
CXCL2	Mouse CXCL2/MIP-2 ELISA kit	EM0018	10.2 pg/ml (10 µl)
CXCL9/MIG	Human CXCL9/MIG ELISA kit	EH0015	2.24 pg/ml (50 µl) ; 5.32 pg/ml (10 µl)
	Mouse CXCL9/MIG ELISA kit	EM0015	0.29 pg/ml (10 µl)
Interferons (IFNs)			
Target name	Product name	Catalog#	Sensitivity
IFN-β	Human IFN-β ELISA Kit	EH0017	0.35 pg/ml (50 µl)
	Human IFN-γ ELISA Kit	EH0039	0.36 pg/ml (50 µl); 0.85 pg/ml (10 µl)
IFN-γ	Mouse IFN-γ ELISA Kit	EM0009	3.24 pg/ml (10 µl)
	Rat IFN-γ ELISA Kit	ER0006	7.39 pg/ml (50 µl)
Growth Factors & Transforming Factors			
Target name	Product name	Catalog#	Sensitivity
TGF alpha	Human TGF alpha ELISA Kit	EH0059	1.91 pg/ml (50 µl); 3.89 pg/ml (10 µl)
TGF-β1	Human/Mouse/Rat/Porcine/Canine TGF-β1 ELISA Kit	EH0012	33.32 pg/ml (50 µl)
EGF	Human EGF ELISA Kit	EH0023	0.12 pg/ml (50 µl) ; 0.59 pg/ml (10 µl)
FGF basic/FGF2/bFGF	Human FGF basic/FGF2/bFGF ELISA Kit	EH0024	1.51 pg/ml (50 µl) ; 9.93 pg/ml (10 µl)
VEGF	Human VEGF ELISA Kit	EH0075	0.01 pg/ml (50 µl); 1.02 pg/ml (10 µl)
	Mouse VEGF ELISA Kit	EM0013	0.57 pg/ml (10 µl)
	Rat VEGF ELISA Kit	ER0008	2.60 pg/ml (50 µl); 3.77 pg/ml (10 µl)
BDNF	Human/Mouse BDNF ELISA Kit	EH0069	1.05 pg/ml (50 µl); 2.53 pg/ml (10 µl)
beta-NGF	Human beta-NGF ELISA Kit	EH0065	3.27 pg/ml (50 µl); 1.91 pg/ml (10 µl)
HGF	Human HGF ELISA Kit	EH0019	4.07 pg/ml (50 µl) ; 6.01 pg/ml (10 µl)
IGF1/IGF-I/IGF-1	Mouse/Rat IGF1/IGF-I/IGF-1 ELISA Kit	EM0024	1.76 pg/ml (50 µl); 3.43 pg/ml (10 µl)

Immunology			
Target name	Product name	Catalog#	Sensitivity
CDCP1	Human CDCP1 ELISA Kit	EH0083	8.79 pg/ml (50 µl)
CRP/C-Reactive Protein	Rat CRP/C-Reactive Protein ELISA Kit	ER0009	27.24 pg/ml (50 µl); 63.91 pg/ml (10 µl)
ICAM-1/CD54	Human ICAM-1/CD54 ELISA Kit	EH0064	0.49 pg/ml(50 µl); 6.36 pg/ml (10 µl)
MICA	Human MICA ELISA Kit	EH0044	8.3 pg/ml (50 µl)
TSLP	Human TSLP ELISA Kit	EH0061	1.56 pg/ml (50 µl); 4.58 pg/ml (10 µl)
PD-L1/B7-H1	Human PD-L1/B7-H1 ELISA Kit	EH0048	8.50 pg/ml (50 µl); 26.02 pg/ml (10 µl)
Myeloperoxidase	Mouse Myeloperoxidase ELISA Kit	EM0030	0.10 ng/ml (10 µl)
CRP/C-Reactive Protein	Mouse CRP/C-Reactive Protein ELISA Kit	EM0035	0.01 ng/ml (50 µl)
VCAM-1/CD106	Human VCAM-1/CD106 ELISA Kit	EH0067	7.07 pg/ml (50 µl)
Granzyme B	Human Granzyme B ELISA Kit	EH0052	1.12 pg/ml (50 µl); 5.96 pg/ml (10 µl)
	Mouse Granzyme B ELISA Kit	EM0016	9.91 pg/ml (10 µl)



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“免疫细胞培养解决方案研究”
产品信息

Case 1

标题: Single-cell RNA sequencing reveals immune microenvironment niche transitions during the invasive and metastatic processes of ground-glass nodules and part-solid nodules in lung adenocarcinoma

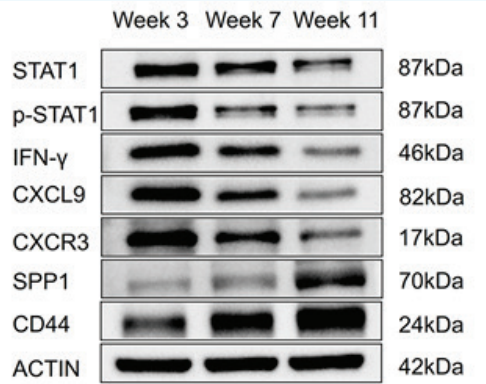
IF: 27.7

期刊: *Mol Cancer*. 2024 Nov 23;23(1):263

产品名称: **STAT1 rabbit mAb | ET1612-22**

应用: WB

科研单位: 成都中医药大学



Western blot analysis of STAT1, p-STAT1, IFN-γ, CXCL9, CXCR3, SPP1, and CD44 in TK tumor samples at 3, 7, and 11 weeks.

Case 2

标题: Bioinspired zwitterionic lysine glycopolymers: Enhancing wound repair through microenvironment modulation for bacterial elimination and optimal immunoregulation

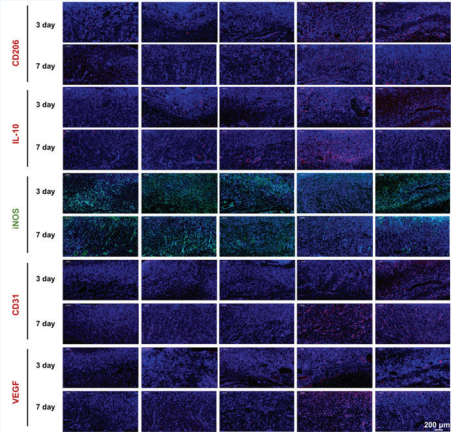
IF: 17.4

期刊: *Nano Today*. 2024 Aug, 57:102354

产品名称: **CD206 rabbit mAb | ET1702-04**

应用: IF

科研单位: 四川大学



Immunofluorescence staining images of CD206, IL-10, iNOS, CD31 and VEGF of wound tissue in different groups on day 3 and 7.

Case 3

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

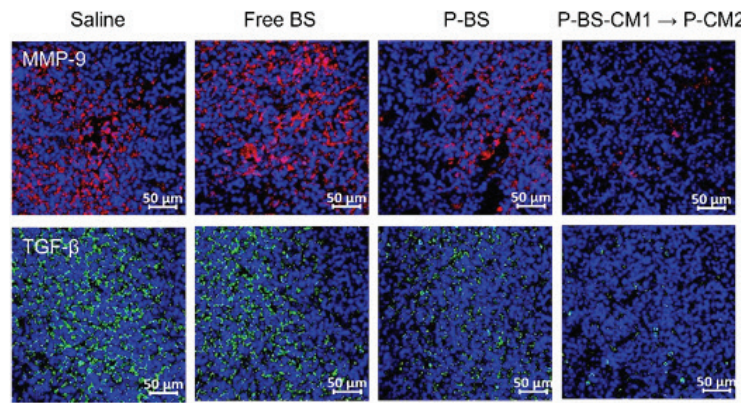
IF: 16.6

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

产品名称: **TGF beta 1 rabbit mAb | HA721143**

应用: IF

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: Intracellularly Synthesized Artificial Exosome Treats Acute Lung Injury

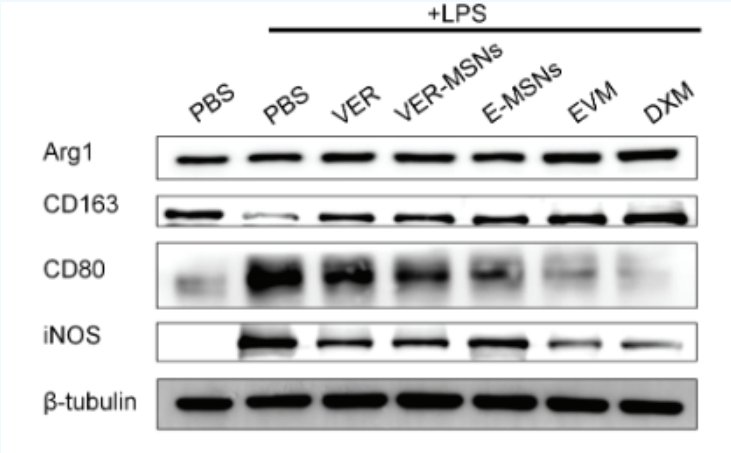
IF: 15.8

期刊: *ACS Nano*. 2024 Aug 13;18(32):21009-21023.

产品名称: **CD80/B7-1 mouse mAb | HA721143; ARG1 rabbit mAb | ET1605-8**

应用: WB

科研单位: 广州医科大学



Western blotting analysis of CD80, NOS2, Arg1, and CD163 to detect anti-inflammatory effect of EVM in vitro.

Case 5

标题：Self-Sulfhydrated, Nitro-Fixed Albumin Nanoparticles as a Potent Therapeutic Agent for the Treatment of Acute Liver Injury

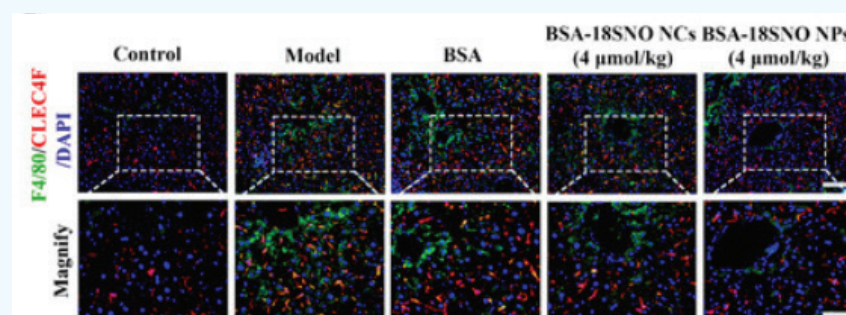
IF: 15.8

期刊：ACS Nano. 2024 Jul 23.

产品名称：F4/80 rabbit mAb | HA721745

应用：IF

科研单位：中国海洋大学



The immunofluorescence imaging of CLEC4F (red, Kupffer cells) and F4/80 (green, monocyte-derived macrophages) in liver 24 h post-I/R injury and different treatments.

Case 6

标题：Photoacoustic Imaging-Guided Self-Adaptive Hyperthermia Supramolecular Cascade Nano-Reactor for Diabetic Periodontal Bone Regeneration

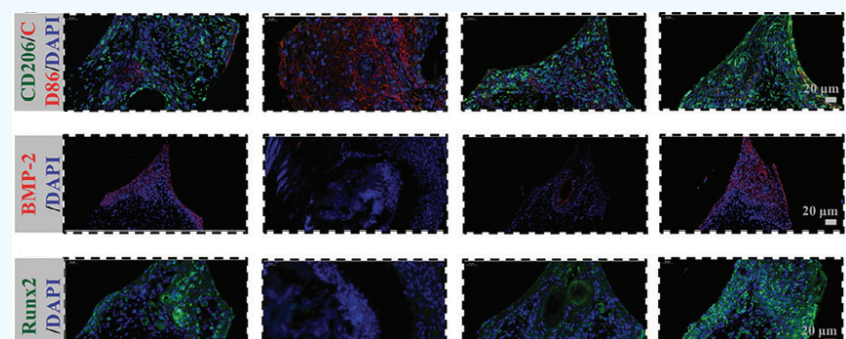
IF: 14.3

期刊：Adv Sci (Weinh). 2024 Aug;11(29):e2404143.

产品名称：CD206 rabbit mAb | ET1702-04; CD86 rabbit mAb | ET1606-50

应用：IF

科研单位：四川大学



Immunofluorescence staining of CD206, CD86, BMP-2 and Runx2 to detect ACFDG mediated inflammatory immune regulation and in vivo periodontal bone regeneration to ameliorate periodontal bone loss under DM.