



扫码关注公众号



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免疫细胞分泌因子检测工具

Detection Tools for Immune Cell Secreted Factor

- 即用型ELISA检测试剂盒
- 多平台验证的高性能配对抗体

让研究变得简单

 华安生物
H U A B I O

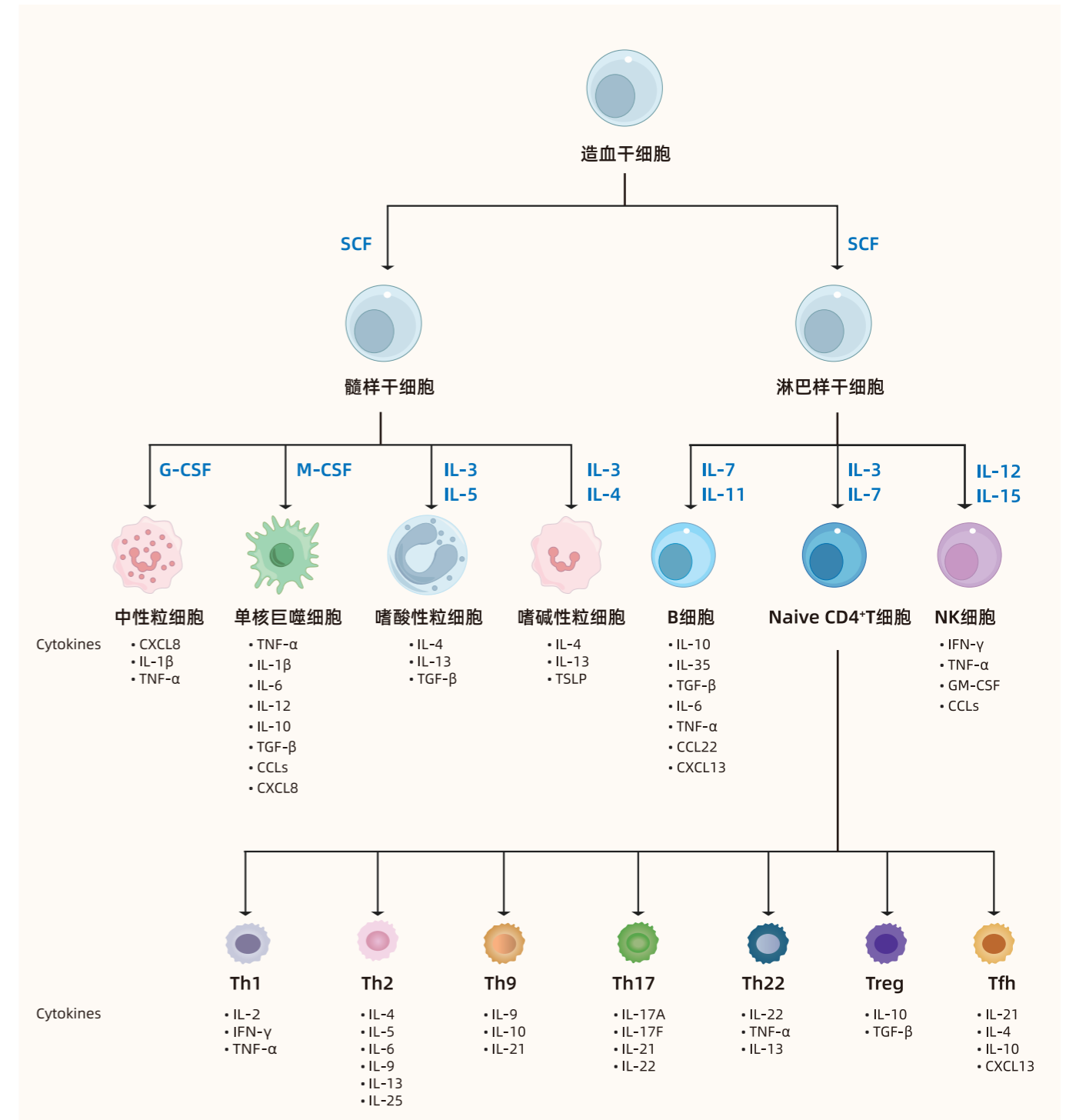
在免疫学、肿瘤学、炎症及干细胞研究等领域，精准定量细胞因子的表达水平是揭示生命活动机制的关键。华安生物（HUABIO）在抗体开发与验证方面具有深厚积淀，为您提供从精准定量到功能分析的全套细胞因子检测工具。



CONTENTS

录

1. 免疫细胞分泌因子概览	01
2. 解决方案	02-08
2.1 高性能细胞因子ELISA检测试剂盒	02-07
2.1 经多平台严格验证的配对抗体	08



我们提供以高性能ELISA试剂盒为核心，以经多平台验证的配对抗体为延伸的完整解决方案，确保您的研究数据精准、可靠、可重复。

核心产品一：高性能细胞因子ELISA检测试剂盒

高特异性与灵敏度

严格验证的兔单克隆抗体配对，有效避免交叉反应；检测下限低至pg级别。

操作便捷，高效省时

即用型试剂盒，提供优化的一步法检测流程，节省实验时间。

卓越的批间一致性

重组表达工艺，每一批次具有高度一致的性能。

广泛的样本兼容性

适用于血清、血浆、细胞培养上清液等多种复杂样本。

6+质控标准

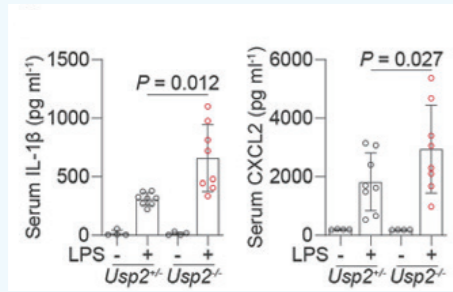
提供包含检测限、精密度、回收率、线性实验、天然样本的完整验证数据。

明星产品：Mouse IL-1 β ELISA Kit | Catalog# EM0029

样本类型	样本数量	浓度范围 (pg/ml)	可测百分率 (%)	检测平均值 (pg/ml)	检测限 (pg/ml)	平均回收率 (%)	板间精密度 (CV, %)
小鼠血清	30	n.d.-3.66	13	1.08	0.91	98	CV<8%

*n.d.表示低于检测限 (LoD)

客户应用案例展示



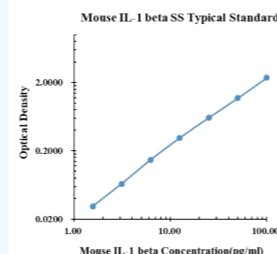
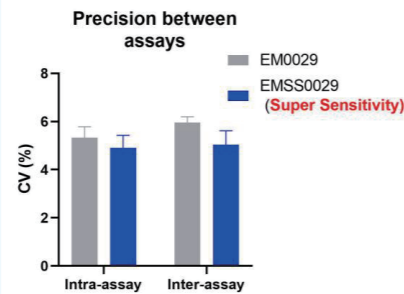
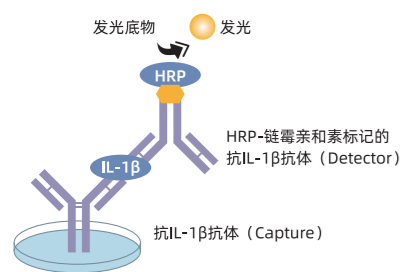
探究SIX家族蛋白通过转录抑制炎症相关基因的表达精准调控炎症反应的新机制

表型验证： HUABIO提供的Mouse IL-1 β ELISA Kit (EM0029) 和 Mouse CXCL2 ELISA Kit (EM0008) 在小鼠血清中低浓度炎症因子检测中表现出高灵敏度与稳定性，支持机制研究的可靠性。

数据来源： Cell Res. 2025 Sep;35(9):675-686. (西湖大学)

新品：Mouse IL-1 β Super Sensitivity ELISA Kit (超高敏) | Catalog# EMSS0029

样本类型	样本数量	浓度范围 (pg/ml)	可测百分率 (%)	检测平均值 (pg/ml)	检测限 (pg/ml)	平均回收率 (%)	板间精密度 (CV, %)
小鼠血清	30	0.18-3.93	100	1.47	0.36	98	CV<8%



在保证稳定的批次间一致性基础上，Mouse IL-1 β 超高敏ELISA Kit检测灵敏度显著提高，满足更低丰度靶标的检测。

热销免疫细胞分泌因子ELISA检测试剂盒推荐

Cell Type	Product name	Catalog#	Size	Sensitivity
Th1	Human IFN- γ ELISA Kit	EH0039	96T	0.36 pg/ml (50 μ l); 0.85 pg/ml (10 μ l)
Th1	Human IL-2 ELISA Kit	EH0013	96T	1.67 pg/ml (50 μ l); 3.08 pg/ml (10 μ l)
Th1	Human TNF- α ELISA Kit	EH0002	96T	0.21 pg/ml (50 μ l); 0.26 pg/ml (10 μ l)
Th1	Mouse IFN- γ ELISA Kit	EM0009	96T	3.24 pg/ml (10 μ l)
Th1	Mouse IL-2 ELISA Kit	EM0002	96T	0.16 pg/ml (10 μ l)
Th1	Mouse TNF- α ELISA Kit	EM0010	96T	0.097 pg/ml (10 μ l)
Th1	Rat IFN- γ ELISA Kit	ER0006	96T	7.39 pg/ml (50 μ l)
Th1	Rat IL-2 ELISA Kit	ER0002	96T	8.13 pg/ml (50 μ l)
Th1	Rat TNF- α ELISA Kit	ER0007	96T	0.08 pg/ml (50 μ l); 0.16 pg/ml (10 μ l)
Th2	Human IL-10 ELISA Kit	EH0009	96T	0.89 pg/ml (10 μ l)
Th2	Human IL-13 ELISA Kit	EH0049	96T	38.65 pg/ml (50 μ l); 179.32 pg/ml (10 μ l)
Th2	Human IL-17E/IL-25 ELISA Kit	EH0066	96T	0.69 pg/ml (50 μ l); 2.74 pg/ml (10 μ l)
Th2	Human IL-31 ELISA Kit	EH0097	96T	0.4 pg/ml (50 μ l); 2.68 pg/ml (10 μ l)
Th2	Human IL-4 ELISA Kit	EH0007	96T	0.03 pg/ml (50 μ l); 0.28 pg/ml (10 μ l)
Th2	Human IL-5 ELISA Kit	EH0008	96T	0.15 pg/ml (50 μ l); 0.73 pg/ml (10 μ l)
Th2	Mouse IL-10 ELISA Kit	EM0005	96T	5.75 pg/ml (10 μ l)
Th2	Mouse IL-13 ELISA Kit	EM0007	96T	0.37 pg/ml (10 μ l)
Th2	Mouse IL-17E ELISA Kit	EM0028	96T	12.33 pg/ml (10 μ l)
Th2	Mouse IL-4 ELISA Kit	EM0003	96T	0.35 pg/ml (10 μ l)
Th2	Mouse IL-5 ELISA Kit	EM0023	96T	0.24 pg/ml (10 μ l)
Th2	Mouse IL-9 ELISA Kit	EM0022	96T	0.10 pg/ml (10 μ l)
Th2	Rat IL-10 ELISA Kit	ER0005	96T	5.76 pg/ml (50 μ l)
Th2	Rat IL-4 ELISA Kit	ER0003	96T	17.29pg/ml (50 μ l)
Th9	Human IL-10 ELISA Kit	EH0009	96T	0.89 pg/ml (10 μ l)
Th9	Human IL-21 ELISA Kit	EH0018	96T	21.7 pg/ml (50 μ l); 67.9 pg/ml (10 μ l)
Th9	Mouse IL-10 ELISA Kit	EM0005	96T	5.75 pg/ml (10 μ l)
Th9	Mouse IL-21 ELISA Kit	EM0020	96T	3.22 pg/ml (10 μ l)
Th9	Mouse IL-9 ELISA Kit	EM0022	96T	0.10 pg/ml (10 μ l)
Th9	Rat IL-10 ELISA Kit	ER0005	96T	5.76 pg/ml (50 μ l)
Th17	Human IL-17A ELISA Kit	EH0004	96T	0.26 pg/ml (50 μ l); 0.65 pg/ml (10 μ l)
Th17	Human IL-21 ELISA Kit	EH0018	96T	21.7 pg/ml (50 μ l); 67.9 pg/ml (10 μ l)
Th17	Human IL-22 ELISA Kit	EH0086	96T	0.03 pg/ml (50 μ l); 0.21 pg/ml (10 μ l)

Cell Type	Product name	Catalog#	Size	Sensitivity
Th17	Mouse IL-17A ELISA Kit	EM0008	96T	0.25 pg/ml (10 µl)
Th17	Mouse IL-21 ELISA Kit	EM0020	96T	3.22 pg/ml (10 µl)
Th17	Mouse IL-22 ELISA Kit	EM0021	96T	11.2 pg/ml (10 µl)
Th22	Human IL-10 ELISA Kit	EH0009	96T	0.89 pg/ml (10 µl)
Th22	Human IL-13 ELISA Kit	EH0049	96T	38.65 pg/ml (50 µl); 179.32 pg/ml (10 µl)
Th22	Human IL-21 ELISA Kit	EH0018	96T	21.7 pg/ml (50 µl); 67.9 pg/ml (10 µl)
Th22	Human IL-22 ELISA Kit	EH0086	96T	0.03 pg/ml (50 µl); 0.21 pg/ml (10 µl)
Th22	Human TNF-α ELISA Kit	EH0002	96T	0.21 pg/ml (50 µl); 0.26 pg/ml (10 µl)
Th22	Mouse IL-10 ELISA Kit	EM0005	96T	5.75 pg/ml (10 µl)
Th22	Mouse IL-13 ELISA Kit	EM0007	96T	0.37 pg/ml (10 µl)
Th22	Mouse IL-21 ELISA Kit	EM0020	96T	3.22 pg/ml (10 µl)
Th22	Mouse IL-22 ELISA Kit	EM0021	96T	11.2 pg/ml (10 µl)
Th22	Mouse TNF-α ELISA Kit	EM0010	96T	0.097 pg/ml (10 µl)
Th22	Rat IL-10 ELISA Kit	ER0005	96T	5.76 pg/ml (50 µl)
Th22	Rat TNF-α ELISA Kit	ER0007	96T	0.08 pg/ml (50 µl); 0.16 pg/ml (10 µl)
Treg	Human IL-10 ELISA Kit	EH0009	96T	0.89 pg/ml (10 µl)
Treg	Human/Mouse/Rat/Porcine/Canine TGF-β1 ELISA Kit	EH0012	96T	33.32 pg/ml (50 µl)
Treg	Mouse IL-10 ELISA Kit	EM0005	96T	5.75 pg/ml (10 µl)
Treg	Rat IL-10 ELISA Kit	ER0005	96T	5.76 pg/ml (50 µl)
Tfh	Human IL-10 ELISA Kit	EH0009	96T	0.89 pg/ml (10 µl)
Tfh	Human IL-17A ELISA Kit	EH0004	96T	0.26 pg/ml (50 µl); 0.65 pg/ml (10 µl)
Tfh	Human IL-21 ELISA Kit	EH0018	96T	21.7 pg/ml (50 µl); 67.9 pg/ml (10 µl)
Tfh	Human IL-4 ELISA Kit	EH0007	96T	0.03 pg/ml (50 µl); 0.28 pg/ml (10 µl)
Tfh	Mouse IL-10 ELISA Kit	EM0005	96T	5.75 pg/ml (10 µl)
Tfh	Mouse IL-17A ELISA Kit	EM0008	96T	0.25 pg/ml (10 µl)
Tfh	Mouse IL-21 ELISA Kit	EM0020	96T	3.22 pg/ml (10 µl)
Tfh	Mouse IL-4 ELISA Kit	EM0003	96T	0.35 pg/ml (10 µl)
Tfh	Rat IL-10 ELISA Kit	ER0005	96T	5.76 pg/ml (50 µl)
Tfh	Rat IL-4 ELISA Kit	ER0003	96T	17.29pg/ml (50 µl)
B cell	Human CCL3/MIP-1 ELISA Kit	EH0146	96T	0.05 pg/ml (50 µl); 0.52 pg/ml (10 µl)
B cell	Human GM-CSF ELISA Kit	EH0051	96T	3.57 pg/ml (50 µl); 5.45 pg/ml (10 µl)
B cell	Human IL-10 ELISA Kit	EH0009	96T	0.89 pg/ml (10 µl)
B cell	Human IL-12B p40 ELISA Kit	EH0098	96T	0.29 pg/ml (50 µl); 1.84 pg/ml (10 µl)

Cell Type	Product name	Catalog#	Size	Sensitivity
B cell	Human IL-12p70 ELISA Kit	EH0021	96T	0.25 pg/ml (10 µl)
B cell	Human IL-15 ELISA Kit	EH0031	96T	3.22 pg/ml (10 µl)
B cell	Human IL-1β ELISA Kit	EH0006	96T	11.2 pg/ml (10 µl)
B cell	Human IL-6 ELISA Kit	EH0001	96T	0.89 pg/ml (10 µl)
B cell	Human TNF-α ELISA Kit	EH0002	96T	38.65 pg/ml (50 µl); 179.32 pg/ml (10 µl)
B cell	Human/Mouse/Rat/Porcine/Canine TGF-β1 ELISA Kit	EH0012	96T	21.7 pg/ml (50 µl); 67.9 pg/ml (10 µl)
B cell	Mouse CCL3/MIP-1 alpha ELISA Kit	EM0031	96T	0.03 pg/ml (50 µl); 0.21 pg/ml (10 µl)
B cell	Mouse GM-CSF/CSF2 ELISA Kit	EM0011	96T	0.21 pg/ml (50 µl); 0.26 pg/ml (10 µl)
B cell	Mouse IL-1 alpha/IL-1 F1 ELISA Kit	EM0047	96T	5.75 pg/ml (10 µl)
B cell	Mouse IL-10 ELISA Kit	EM0005	96T	0.37 pg/ml (10 µl)
B cell	Mouse IL-12/IL-23 p40 ELISA Kit	EM0012	96T	3.22 pg/ml (10 µl)
B cell	Mouse IL-1β ELISA Kit	EM0029	96T	11.2 pg/ml (10 µl)
B cell	Mouse IL-1β Super Sensitivity ELISA Kit (高敏)	EMSS0029	96T	0.097 pg/ml (10 µl)
B cell	Mouse IL-6 ELISA Kit	EM0004	96T	5.76 pg/ml (50 µl)
B cell	Mouse TNF-α ELISA Kit	EM0010	96T	0.08 pg/ml (50 µl); 0.16 pg/ml (10 µl)
B cell	Rat IL-10 ELISA Kit	ER0005	96T	0.89 pg/ml (10 µl)
B cell	Rat IL-1β ELISA Kit	ER0001	96T	33.32 pg/ml (50 µl)
B cell	Rat IL-6 ELISA Kit	ER0004	96T	5.75 pg/ml (10 µl)
B cell	Rat TNF-α ELISA Kit	ER0007	96T	5.76 pg/ml (50 µl)
NK cell	Human GM-CSF ELISA Kit	EH0051	96T	0.89 pg/ml (10 µl)
NK cell	Human Granzyme A/GZMA ELISA Kit	EH0129	96T	0.26 pg/ml (50 µl); 0.65 pg/ml (10 µl)
NK cell	Human Granzyme B ELISA Kit	EH0052	96T	21.7 pg/ml (50 µl); 67.9 pg/ml (10 µl)
NK cell	Human IFN-γ ELISA Kit	EH0039	96T	0.03 pg/ml (50 µl); 0.28 pg/ml (10 µl)
NK cell	Human IL-15 ELISA Kit	EH0031	96T	5.75 pg/ml (10 µl)
NK cell	Human IL-17A ELISA Kit	EH0004	96T	0.25 pg/ml (10 µl)
NK cell	Human IL-1β ELISA Kit	EH0006	96T	3.22 pg/ml (10 µl)
NK cell	Human IL-3 ELISA Kit	EH0050	96T	0.35 pg/ml (10 µl)
NK cell	Human IL-4 ELISA Kit	EH0007	96T	5.76 pg/ml (50 µl)
NK cell	Human TNF-α ELISA Kit	EH0002	96T	17.29pg/ml (50 µl)
NK cell	Human TRAIL/TNFSF10 ELISA Kit	EH0176	96T	0.05 pg/ml (50 µl); 0.52 pg/ml (10 µl)
NK cell	Mouse GM-CSF/CSF2 ELISA Kit	EM0011	96T	3.57 pg/ml (50 µl); 5.45 pg/ml (10 µl)
NK cell	Mouse IFN-γ ELISA Kit	EM0009	96T	0.89 pg/ml (10 µl)
NK cell	Mouse IL-1 alpha/IL-1 F1 ELISA Kit	EM0047	96T	0.29 pg/ml (50 µl); 1.84 pg/ml (10 µl)

Cell Type	Product name	Catalog#	Size	Sensitivity
NK cell	Mouse IL-17A ELISA Kit	EM0008	96T	0.25 pg/ml (10 µl)
NK cell	Mouse IL-1β ELISA Kit	EM0029	96T	0.91 pg/ml (10 µl)
NK cell	Mouse IL-1β Super Sensitivity ELISA Kit (高敏)	EMSS0029	96T	0.12 pg/ml (50 µl); 0.36 pg/ml (10 µl)
NK cell	Mouse IL-4 ELISA Kit	EM0003	96T	0.35 pg/ml (10 µl)
NK cell	Mouse TNF-α ELISA Kit	EM0010	96T	0.097 pg/ml (10 µl)
NK cell	Rat IFN-γ ELISA Kit	ER0006	96T	7.39 pg/ml (50 µl)
NK cell	Rat IL-1β ELISA Kit	ER0001	96T	17.11 pg/ml (50 µl)
NK cell	Rat IL-4 ELISA Kit	ER0003	96T	17.29pg/ml (50 µl)
NK cell	Rat TNF-α ELISA Kit	ER0007	96T	0.08 pg/ml (50 µl); 0.16 pg/ml (10 µl)
Macrophage	Human CCL2/MCP-1 ELISA Kit	EH0010	96T	0.04 ng/ml (50 µl); 0.03 ng/ml (10 µl)
Macrophage	Human CCL3/MIP-1 ELISA Kit	EH0146	96T	0.05 pg/ml (50 µl); 0.52 pg/ml (10 µl)
Macrophage	Human CCL5/RANTES ELISA Kit	EH0027	96T	0.7 pg/ml (50 µl); 4.65pg/ml (10 µl)
Macrophage	Human CCL5/RANTES ELISA Kit (一步法)	EHY0027	96T	0.7 pg/ml (50 µl); 4.99 pg/ml (10 µl)
Macrophage	Human EGF ELISA Kit	EH0023	96T	0.12 pg/ml (50 µl); 0.59 pg/ml (10 µl)
Macrophage	Human FGF basic/FGF2/bFGF ELISA Kit	EH0024	96T	1.51 pg/ml (50 µl); 9.93 pg/ml (10 µl)
Macrophage	Human FGF-19 ELISA Kit	EH0140	96T	0.48 pg/ml (50 µl); 4.11 pg/ml (10 µl)
Macrophage	Human GM-CSF ELISA Kit	EH0051	96T	3.57 pg/ml (50 µl); 5.45 pg/ml (10 µl)
Macrophage	Human IL-10 ELISA Kit	EH0009	96T	0.89 pg/ml (10 µl)
Macrophage	Human IL-12B p40 ELISA Kit	EH0098	96T	0.29 pg/ml (50 µl); 1.84 pg/ml (10 µl)
Macrophage	Human IL-12p70 ELISA Kit	EH0021	96T	3.42 pg/ml (50 µl); 11.63 pg/ml (10 µl)
Macrophage	Human IL-15 ELISA Kit	EH0031	96T	0.14 pg/ml (50 µl); 0.79 pg/ml (10 µl)
Macrophage	Human IL-17E/IL-25 ELISA Kit	EH0066	96T	0.69 pg/ml (50 µl); 2.74 pg/ml (10 µl)
Macrophage	Human IL-18 ELISA Kit	EH0053	96T	0.46pg/ml (50 µl); 2.13 pg/ml (10 µl)
Macrophage	Human IL-1β ELISA Kit	EH0006	96T	0.77 pg/ml (10 µl)
Macrophage	Human IL-6 ELISA Kit	EH0001	96T	0.26 pg/ml (50 µl); 0.43 pg/ml (10 µl)
Macrophage	Human IL-8/CXCL8 ELISA Kit	EH0014	96T	1.45 pg/ml (50 µl); 3.63 pg/ml (10 µl)
Macrophage	Human PDGF-AA ELISA Kit	EH0058	96T	0.10 ng/ml (50 µl); 0.17 ng/ml (10 µl)
Macrophage	Human PDGF-BB ELISA Kit	EH0068	96T	2.79 pg/ml (50 µl); 7.56 pg/ml (10 µl)
Macrophage	Human TNF-α ELISA Kit	EH0002	96T	0.21 pg/ml (50 µl); 0.26 pg/ml (10 µl)
Macrophage	Human VEGF ELISA Kit	EH0075	96T	1.04 pg/ml (50 µl); 3.21 pg/ml (10 µl)
Macrophage	Human/Mouse/Rat/Porcine/Canine TGF-β1 ELISA Kit	EH0012	96T	33.32 pg/ml (50 µl)
Macrophage	Mammal VEGF-C ELISA Kit	EH0113	96T	1.82 pg/ml (50 µl)
Macrophage	Mouse CCL2/MCP-1 ELISA Kit	EM0025	96T	1.78 pg/ml (10 µl)

Cell Type	Product name	Catalog#	Size	Sensitivity
Macrophage	Mouse CCL3/MIP-1 alpha ELISA Kit	EM0031	96T	0.51 pg/ml (10 µl)
Macrophage	Mouse CCL5/RANTES ELISA Kit	EM0032	96T	1.86 pg/ml (10 µl)
Macrophage	Mouse GM-CSF/CSF2 ELISA Kit	EM0011	96T	0.19 pg/ml (10 µl)
Macrophage	Mouse IL-10 ELISA Kit	EM0005	96T	5.75 pg/ml (10 µl)
Macrophage	Mouse IL-12/IL-23 p40 ELISA Kit	EM0012	96T	1.65 pg/ml (10 µl)
Macrophage	Mouse IL-17E ELISA Kit	EM0028	96T	12.33 pg/ml (10 µl)
Macrophage	Mouse IL-18 ELISA Kit	EM0034	96T	1.46 pg/ml (10 µl)
Macrophage	Mouse IL-1β ELISA Kit	EM0029	96T	0.91 pg/ml (10 µl)
Macrophage	Mouse IL-1β Super Sensitivity ELISA Kit (高敏)	EMSS0029	96T	0.12 pg/ml (50 µl); 0.36 pg/ml (10 µl)
Macrophage	Mouse IL-6 ELISA Kit	EM0004	96T	0.36 pg/ml (10 µl)
Macrophage	Mouse TNF-α ELISA Kit	EM0010	96T	0.097 pg/ml (10 µl)
Macrophage	Mouse VEGF ELISA Kit	EM0013	96T	0.57 pg/ml (10 µl)
Macrophage	Rat IL-10 ELISA Kit	ER0005	96T	5.76 pg/ml (50 µl)
Macrophage	Rat IL-1β ELISA Kit	ER0001	96T	17.11 pg/ml (50 µl)
Macrophage	Rat IL-6 ELISA Kit	ER0004	96T	7.05pg/ml (50 µl)
Macrophage	Rat TNF-α ELISA Kit	ER0007	96T	0.08 pg/ml (50 µl); 0.16 pg/ml (10 µl)

扫码了解更多
“细胞因子检测试剂盒”
产品信息

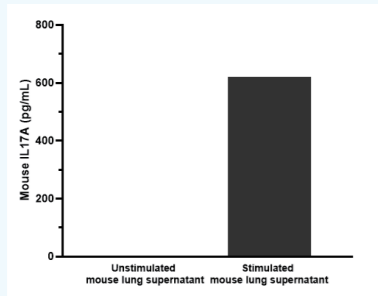


核心产品二：经多平台严格验证的配对抗体

对于需要多参数分析或细胞内检测的研究，我们提供经过严格验证的配对抗体，确保高信噪比与批次一致性，支持精准的细胞因子定量与功能研究。

精准的配对性能	卓越的批次间一致性	丰富的选择性
<ul style="list-style-type: none"> 夹心法ELISA验证，具有最佳的信噪比和灵敏度 	<ul style="list-style-type: none"> 基于免单抗平台，从源头上保证抗体表位识别精确与批间高度均一 	<ul style="list-style-type: none"> 多种标记选择 (HRP, Biotin, etc.)
<ul style="list-style-type: none"> 提供无载体形式，实现自主灵活标记 	<ul style="list-style-type: none"> 每批产品均经过性能验证，具有高度一致的性能和效价 	<ul style="list-style-type: none"> 每个靶标提供多种配对，满足多种检测需求

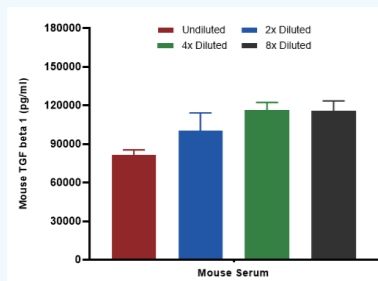
热门配对抗体



Mouse IL-17A Matched Antibody Pair | HA722264 (Cap) & HA722265 (Det)

应用推荐：Th17细胞分化与功能研究、银屑病及多发性硬化等自身免疫疾病模型中的炎症通路解析。

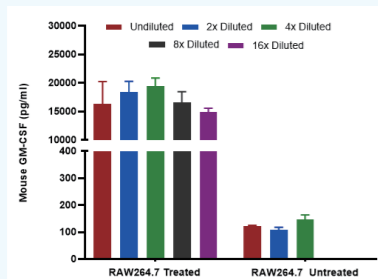
LPS stimulated mouse lung supernatant : 621 pg/ml;
undetectable in the unstimulated mouse lung supernatant.



TGF beta 1 Matched Antibody Pair | HA723725 (Cap) & HA723726 (Det)

应用推荐：Th17/Treg细胞平衡研究、纤维化疾病模型机制探索，及肿瘤微环境中免疫抑制机制分析。

The mean TGF beta 1 concentration in mouse serum: 103 ng/ml.



Mouse GM-CSF Matched Antibody Pair | HA725019 (Cap) & HA725020 (Det)

应用推荐：髓系细胞活化与极化研究，炎症性疾病及癌症免疫治疗中的粒细胞-巨噬细胞调控机制解析。

LPS treated RAW264.7 supernatant : 17,161 pg/ml;
Untreated RAW264.7 supernatant: 126 pg/ml.

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“免疫细胞分泌因子检测配对抗体”
产品信息

