

revvity

HTRF & AlphaLISA 细胞因子手册



仅供研究使用。不用于临床诊断。

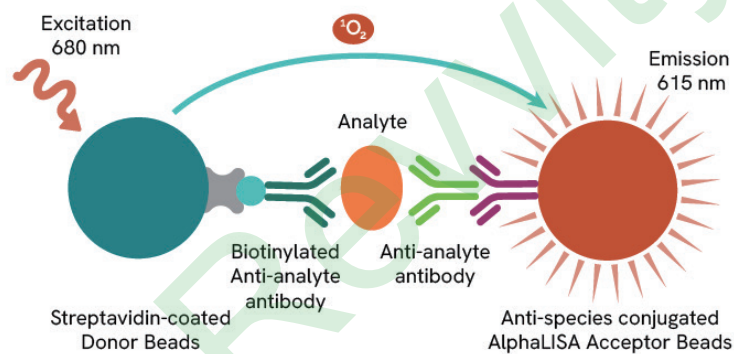
细胞因子在先天性免疫和适应性免疫中发挥着至关重要的作用，它们调节免疫和炎症反应并维持免疫稳态。除了免疫系统之外，它们还在其他细胞中发挥多种功能。对细胞因子及其受体和下游信号通路的研究，将有助于针对各种免疫相关疾病的新疗法开发。

Revity 为您提供一系列均相免洗的细胞因子检测方案，试剂盒涵盖了几乎所有类型的细胞因子：白细胞介素、干扰素、肿瘤坏死因子超家族、集落刺激因子、趋化因子、生长因子等。

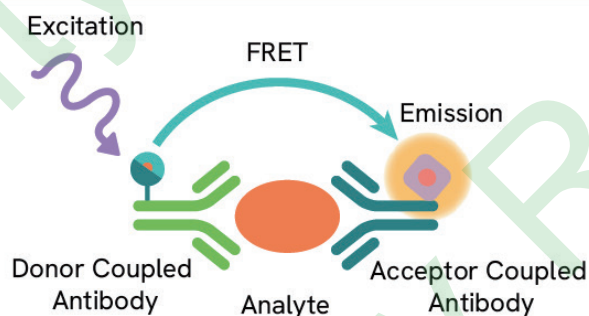
AlphaLISA 和 HTRF 细胞因子检测产品组合,为您提供:

- 快速、简单的均相检测体系,无需洗涤步骤
- 强大且稳定的检测信号,保证实验结果的可重复性
- 以最少的样品消耗获得高质量的结果
- 适用于多种样本类型: 细胞系, 原代细胞(如 PBMC), 血清, 血浆, 组织液等
- 单个样品的多种细胞因子测量

ALPHA is a versatile, bead-based platform that enables you to assay the most complex samples in one well and with no wash steps.



HTRF is a fast, sensitive, homogeneous, and ready to use assay platform with no wash steps.



Cytokine	Platform	Product No.	Species	Assay range (pg/mL)	LOD in assay buffer (pg/mL)	LOQ in assay buffer (pg/mL)
BMP7	AlphaLISA	AL369C	Human only	4.3 – 300 000	4.3	14.8
BMP9	AlphaLISA	AL3013C	Human only	1 – 100,000	1	3
CCL1	AlphaLISA	AL3099C	Human only	0.55 – 100,000	0.55	1.95
CCL2/MCP1	HTRF	62HCCL2PEG	Human only	90 – 3,000	20	90
	HTRF	62MCCL2PEG	Mouse only	13 – 1,800	6	13
	AlphaLISA	AL244C	Human only	3.8 – 100,000	3.8	\
	AlphaLISA	AL509C	Mouse / Rat	6.9 – 100,000	6.9	\
CCL3/ MIP1 α	HTRF	62HCCL3PEG	Human only	58 – 4,400	28	58
	AlphaLISA	AL257C	Human only	0.80 – 30,000	0.8	\
CCL4/ MIP-1 β	HTRF	62HCCL4PEG	Human only	20 – 5,000	7	20
	AlphaLISA	AL258C	Human only	2.8 – 100,000	2.8	\
	AlphaLISA HP	AL3190C	Mouse only	5.8 – 30,000	5.8	17.2
CCL5/RANTES	HTRF	62HCCL5PEG	Human only	18 – 2,000	7	18
	AlphaLISA	AL289C	Human only	0.84 – 100,000	0.84	\
	AlphaLISA	AL589C	Mouse only	2.6 – 30,000	2.6	\
CCL8/MCP2	AlphaLISA	AL582C	Mouse only	7.8 – 300,000	7.8	25.9
CCL18	AlphaLISA	AL3106C	Human only	1.7 – 300 000	1.7	6.0
CCL20 /MIP3 α	HTRF	62HCC20PEG	Human only	47 – 2,000	15	47
CXCL1/GRO α	HTRF	62HCXC1PEG	Human only	36 – 4,000	13	36
	AlphaLISA	AL349C	Human only	0.5 – 30,000	0.5	1.8
CXCL4/PF4	AlphaLISA	AL398C	Human only	1.3 – 100,000	1.3	4.3
CXCL9/MIG	AlphaLISA	AL280C	Human only	1.6 – 100,000	1.6	\
CXCL10/IP10	HTRF	62HCX10PEG	Human only	26 – 5,000	7	26
	AlphaLISA	AL259C	Human only	8.6 – 100,000	8.6	\
	AlphaLISA HP	AL3163C	Human only	1.56 – 100,000	1.56	5.08
	AlphaLISA	AL556C	Mouse only	12 – 1,000,000	12	42
CXCL11/ITAC	AlphaLISA	AL260C	Human only	1.4 – 30,000	1.4	\
CXCL13	AlphaLISA	AL3098C	Human only	2.3 – 100,000	2.3	7.2
	AlphaLISA	AL581C	Mouse only	0.9 – 100,000	0.9	2.9
CYR61/ CCN1	AlphaLISA	AL3076C	Human only	4.3 – 300,000	4.3	14.8
G-CSF	HTRF	62HGCSFPEG	Human only	47 – 4,500	27	47
	AlphaLISA	AL213C	Human only	14 – 300,000	14	\
GM-CSF	HTRF	62HGMCSFPEG	Human only	54 – 8,500	29	54
	AlphaLISA	AL216C	Human only	1.6 – 10,000	1.6	\
IFN α	HTRF	62HIFNAPEG	Human only	36 – 4,000	11	36
	AlphaLISA	AL297C	Human only	8.2 – 100,000	8.2	\
	AlphaLISA	AL550C	Mouse only	171 – 100,000	171	419
	AlphaLISA	AL576C	Porcine only	15 – 300,000	15	54
IFN β	HTRF	62HIFNBPEG	Human only	19 – 4,000	7	19
	HTRF	62MIFNBPEG	Mouse only	17 – 2,000	4	17
	AlphaLISA	AL3191C	Human only	1.05 – 100,000	1.05	3.85

Cytokine	Platform	Product No.	Species	Assay range (pg/mL)	LOD in assay buffer (pg/mL)	LOQ in assay buffer (pg/mL)
IFN β	AlphaLISA	AL586C	Mouse only	5.1 – 100,000	5.1	18
	AlphaLISA	AL577C	Porcine only	95 – 300,000	95	456
IFN γ	HTRF	62HIFNGPEG	Human only	21 – 4,000	14	21
	HTRF	62MIFNGPEG	Mouse only	34 – 3,000	23	34
	AlphaLISA	AL217C	Human only	10.6 – 100,000	10.6	\
	AlphaLISA HP	AL3153C	Human only	0.34 – 3, 000	0.34	1.31
	AlphaLISA HP Biotin-Free	AL3154C	Human only	0.85 – 30 000	0.85	4.5
	AlphaLISA	AL501C	Mouse only	1.1 – 100,000	1.1	\
	AlphaLISA	AL3195C	Rat only	4.1 – 30,000	4.1	14
	AlphaLISA	AL549C	Porcine only	22 – 300,000	22	129
	AlphaLISA	AL561C	Cynomolgus only	4 – 100 000	4	13
	AlphaLISA	AL560C	Ovine only	12 – 100,000	12	44
IFN- λ 2	AlphaLISA	AL3031C	Human only	6.3 – 100,000	6.3	24.5
IL-1 α	HTRF	62HIL1APEG	Human only	20.5 – 5,000	8	20.5
	HTRF	62MIL1APEG	Mouse only	62 – 4,000	34	62
	AlphaLISA	AL238C	Human only	1.3 – 30,000	1.3	\
IL-1 β	HTRF	62HIL1BPEG	Human only	39 – 6,500	4.7	39
	HTRF HP	62HIL1B2PEG	Human only	18.8 – 6,500	8.3	18.8
	HTRF	62MIL1BPEG	Mouse only	46 – 4,200	14	46
	AlphaLISA	AL220C	Human only	0.65 – 30,000	0.65	\
	AlphaLISA HP	AL3160C	Human only	0.37 – 30,000	0.37	1.33
	AlphaLISA	AL503C	Mouse only	11.5 – 100,000	11.5	\
	AlphaLISA HP	AL592C	Mouse only	0.79– 30,000	0.79	2.60
	AlphaLISA	AL518C	Rat only	6.2 – 100,000	6.2	\
	AlphaLISA	AL575C	Porcine only	20 – 300,000	20	62
IL2	HTRF	62HIL02PEG	Human only	37 – 8,000	7	37
	HTRF HP	62HIL02V2PEG	Human only	28 – 10,000	9	28
	HTRF	62MIL02PEG	Mouse only	35 – 2,560	12	35
	AlphaLISA	AL221C	Human only	1.8 – 100,000	1.8	\
	AlphaLISA HP	AL3155C	Human only	0.18 – 300,000	0.18	0.65
	AlphaLISA Biotin-Free	AL333C	Human only	2.6 – 300,000	2.6	9.3
	AlphaLISA HP Biotin-Free	AL3156C	Human only	0.70 – 300,000	0.70	2.7
	AlphaLISA	AL585C	Mouse only	1.8 – 30,000	1.8	\
IL4	HTRF	62HIL04PEG	Human only	29 – 4,000	8	29
	AlphaLISA	AL266C	Human only	4.0 – 100,000	4.0	\
	AlphaLISA	AL567C	Mouse only	1 – 100,000	1	3
	AlphaLISA	AL578C	Porcine only	2.3 – 100,000	2.3	6.9

Cytokine	Platform	Product No.	Species	Assay range (pg/mL)	LOD in assay buffer (pg/mL)	LOQ in assay buffer (pg/mL)
IL4	AlphaLISA	AL542C	Bovine only	1.8 – 100 000	1.8	4.6
	AlphaLISA	AL564C	Rhesus only	12 – 300,000	12	39
IL5	HTRF	62HIL05PEG	Human only	71 – 10,000	15	71
	AlphaLISA	AL267C	Human only	4.5 – 100,000	4.5	\
	AlphaLISA	AL569C	Mouse only	1 – 100,000	1	2
IL6	HTRF	62HIL06PEG	Human only	34 – 7,500	7.6	34
	HTRF HP	62HIL6V2PEG	Human only	16– 12,000	10	16
	HTRF	62MIL06PEG	Mouse only	19 – 7,000	6	19
	AlphaLISA	AL223C	Human only	1.3 – 30,000	1.3	\
	AlphaLISA Biotin-Free	AL3025C	Human only	12 – 100,000	12	\
	AlphaLISA	AL504C	Mouse only	1.4 – 100,000	1.4	\
	AlphaLISA	AL555C	Cynomolgus only	1 – 100,000	1	3.4
	AlphaLISA	AL538C	Bovine only	10 – 37,000	10	40
IL7	AlphaLISA	AL573C	Porcine only	5.1 – 300,000	5.1	18.4
	AlphaLISA	AL512C	Mouse only	24.8 – 300,000	24.8	\
IL8	HTRF	62HIL08PEG	Human only	32 – 4,000	6.1	32
	AlphaLISA	AL224C	Human only	1.1 – 30,000	1.1	\
	AlphaLISA HP	AL3164C	Human only	0.36 – 10,000	0.36	1.53
	AlphaLISA Biotin-Free	AL328C	Human only	3.6– 30,000	3.6	9.1
	AlphaLISA HP Biotin-Free	AL3165C	Human only	0.66 – 10,000	0.66	2.6
	AlphaLISA	AL545C	Bovine/Ovine	0.3 – 100,000	0.3	1.3
	AlphaLISA	AL571C	Porcine only	0.7 – 30,000	0.7	2.6
IL10	HTRF	62HIL10PEG	Human only	22 – 6,000	7	22
	AlphaLISA	AL218C	Human only	4.4 – 30,000	4.4	\
	AlphaLISA HP	AL3159C	Human only	0.30 – 10,000	0.3	0.95
	AlphaLISA	AL502C	Mouse only	13.5 – 300,000	13.5	\
	AlphaLISA	AL546C	Bovine/Ovine	3 – 300,000	3	18
IL11	HTRF	62HIL11PEG	Human only	31 – 5,000	21	31
	AlphaLISA	AL293C	Human only	8.6 – 300,000	8.6	\
IL12	HTRF	62HIL12PEG	Human only	81 – 13,000	14	81
	AlphaLISA	AL3116C	Human only	1.8 – 30, 000	1.8	6.3
	AlphaLISA	AL554C	Porcine only	5 – 100,000	5	16
	AlphaLISA	AL553C	Bovine only	85 – 1,000,000	85	281
IL13	HTRF	62HIL13PEG	Human only	17 – 5,000	6	17
	AlphaLISA	AL240C	Human only	3.9 – 100,000	3.9	\
	AlphaLISA	AL565C	Mouse only	3 – 300,000	3	10
	AlphaLISA	AL551C	Porcine only	22 – 300,000	22	74
	AlphaLISA	AL557C	Bovine only	11 – 300,000	11	40
IL15	HTRF	62HIL15PEG	Human only	10 – 5,000	4	10
	AlphaLISA	AL3196C	Human only	0.31 – 10,000	0.31	1.4

Cytokine	Platform	Product No.	Species	Assay range (pg/mL)	LOD in assay buffer (pg/mL)	LOQ in assay buffer (pg/mL)
IL15	AlphaLISA Biotin-Free	AL360C	Human only	1.9 – 100,000	1.9	6.3
IL17	HTRF	62HIL17PEG	Human only	33 – 10,000	7	33
	HTRF	62MIL17PEG	Mouse only	16 – 4,000	4	16
IL17A	AlphaLISA	AL219C	Human only	14 – 300,000	14	\
	AlphaLISA HP	AL3161C	Human only	0.5 – 300,000	0.5	2.85
	AlphaLISA Biotin-Free	AL346C	Human only	13.5 – 30,000	13.5	53.8
	AlphaLISA HP Biotin-Free	AL3162C	Human only	4.58 – 300,000	4.58	19.42
	AlphaLISA	AL540C	Mouse only	3.5 – 300,000	3.5	11.5
	AlphaLISA	AL588C	Mouse / Rat	4.1 – 100,000	4.1	\
	AlphaLISA Biotin-Free	AL590C	Mouse / Rat	4.1 – 100,000	4.1	13.4
	AlphaLISA	AL572C	Porcine only	3.8 – 100,000	3.8	11.8
	AlphaLISA	AL547C	Bovine only	2 – 100,000	2.0	9.4
	IL17F	AlphaLISA	AL391C	Human only	16 – 300,000	16
IL18	HTRF	62HIL18PEG	Human only	43 – 8,000	18	43
	AlphaLISA	AL3137C	Human only	5.0 – 300,000	5.0	\
	AlphaLISA	AL559C	Porcine only	35.9 – 300,000	35.9	125
	AlphaLISA	AL558C	Bovine only	70 – 300,000	70	256
IL21	AlphaLISA	AL3043C	Human only	5 – 300,000	5	16
IL22	HTRF	62HIL22PEG	Human only	26 – 5,000	9	26
	AlphaLISA	AL320C	Human/ Rat	18 – 1,000,000	18	65
IL23	HTRF	62HIL23PEG	Human only	92 – 30,000	30	92
	AlphaLISA	AL3006C	Human only	10 – 100,000	7	21
IL25	AlphaLISA	AL3135C	Human only	6 – 300,000	6	20.4
	AlphaLISA	AL570C	Mouse only	56 – 300,000	56	219
IL28B	AlphaLISA	AL365C	Human only	16 – 100,000	16	43
IL31	HTRF	62HIL31PEG	Human only	87 – 20,000	18	87
	AlphaLISA	AL3003C	Human only	25 – 1,000,000	25	86
IL33	AlphaLISA	AL3042C	Human only	6.3 – 300,000	6.3	22.7
	AlphaLISA	AL566C	Mouse only	3.8 – 300,000	3.8	15.4
TNF α	HTRF	62HTNFAPEG	Human only	29 – 2,500	5	29
	HTRF	62CTNFAPEG	Cynomolgus only	27 – 3,000	12	27
	HTRF	62MTNFAPEG	Mouse only	20 – 6,000	3	20
	AlphaLISA	AL208C	Human only	2.2 – 30,000	2.2	\
	AlphaLISA HP	AL3157C	Human only	1.41 – 30,000	1.41	6.82
	AlphaLISA Biotin-Free	AL325C	Human only	13 – 30,000	13	45
	AlphaLISA HP Biotin-Free	AL3158C	Human only	7.88 – 100,000	7.88	31.12

Cytokine	Platform	Product No.	Species	Assay range (pg/mL)	LOD in assay buffer (pg/mL)	LOQ in assay buffer (pg/mL)
TNF α	AlphaLISA	AL505C	Mouse only	2.0 – 30,000	2.0	\
	AlphaLISA Biotin-Free	AL541C	Mouse only	7– 70,000	7	24
	AlphaLISA	AL562C	Cynomolgus only	5.1 – 300,000	5.1	16.7
	AlphaLISA	AL534C	Bovine only	26– 300,000	26	84
	AlphaLISA	AL548C	Porcine only	2 – 100,000	2	7
TGF- β 1	HTRF	62HTGFBPEG	Human/Mouse	19 – 2,000	4	19
	AlphaLISA	AL336C	Human only	2.5 – 300,000	2.5	8
TSLP	AlphaLISA	AL3040C	Human only	1.5 – 100,000	1.5	5
Oncostatin M	AlphaLISA	AL341C	Human only	0.6 – 100,000	0.6	2

备注:

- Assay range of HTRF starts from LOQ (LOD: Std 0 mean + 2 x SD; LOQ: 1.2 x Std 0 mean); Assay range of AlphaLISA starts from LOD (LOD: Std 0 mean + 3 x SD; LOQ: Std 0 mean + 10 x SD).
- 灵敏度数据可因不同型号的酶标仪而异。
- HP: High Performance

■ 小贴士

● 试剂保存

检测抗体及标准品一旦复溶或室温融化,建议分装冻存,避免反复冻融。试剂盒各组分保存条件,请参考说明书操作。所有试剂盒的标准品可单独购买。

● 是否需要避光

HTRF 加样和检测可在正常光照条件下操作。当进行 Alpha 实验时,Alpha 供体珠加样及孵育应在较弱的实验室照明 (< 100 勒克斯) 下进行。

● 基质效应 (Matrix effect)

标准品稀释基质与样本基质须保持一致。HTRF 方法检测细胞因子时,尽量避免使用含酚红的培养基。

● 钩状效应 (Hook effect)

与任何夹心免疫测定一样,信号随着待测分析物成比例增加,如果细胞因子的量明显高于孔中存在的检测试剂的量,则信号减弱。这种情况被称为“钩状效应”。建议针对不同的细胞因子试剂盒、不同的细胞模型及细胞密度,甚至不同药物处理、处理时间等参数进行优化,以避免钩状效应。

■ 微孔板推荐

Part Numbers	Format	Recommended volume	Type
66PL96005, 66PL96025, 66PL96100	96-w low volume	20-30 μ L	White
6008280, 6008289	384-w shallow well	10-20 μ L	White
6007290, 6007299	384-w	24-90 μ L	White
6005350, 6005359	384-w	24-90 μ L	light gray

■ 数据处理及四参数标曲拟合

请参考: <https://www.cisbio.com/content/signal-treatment-and-analysis>

■ 酶标仪参数设置

请参考: <https://www.cisbio.cn/content/microplate-readers>

Contact us today: www.revivity.com

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