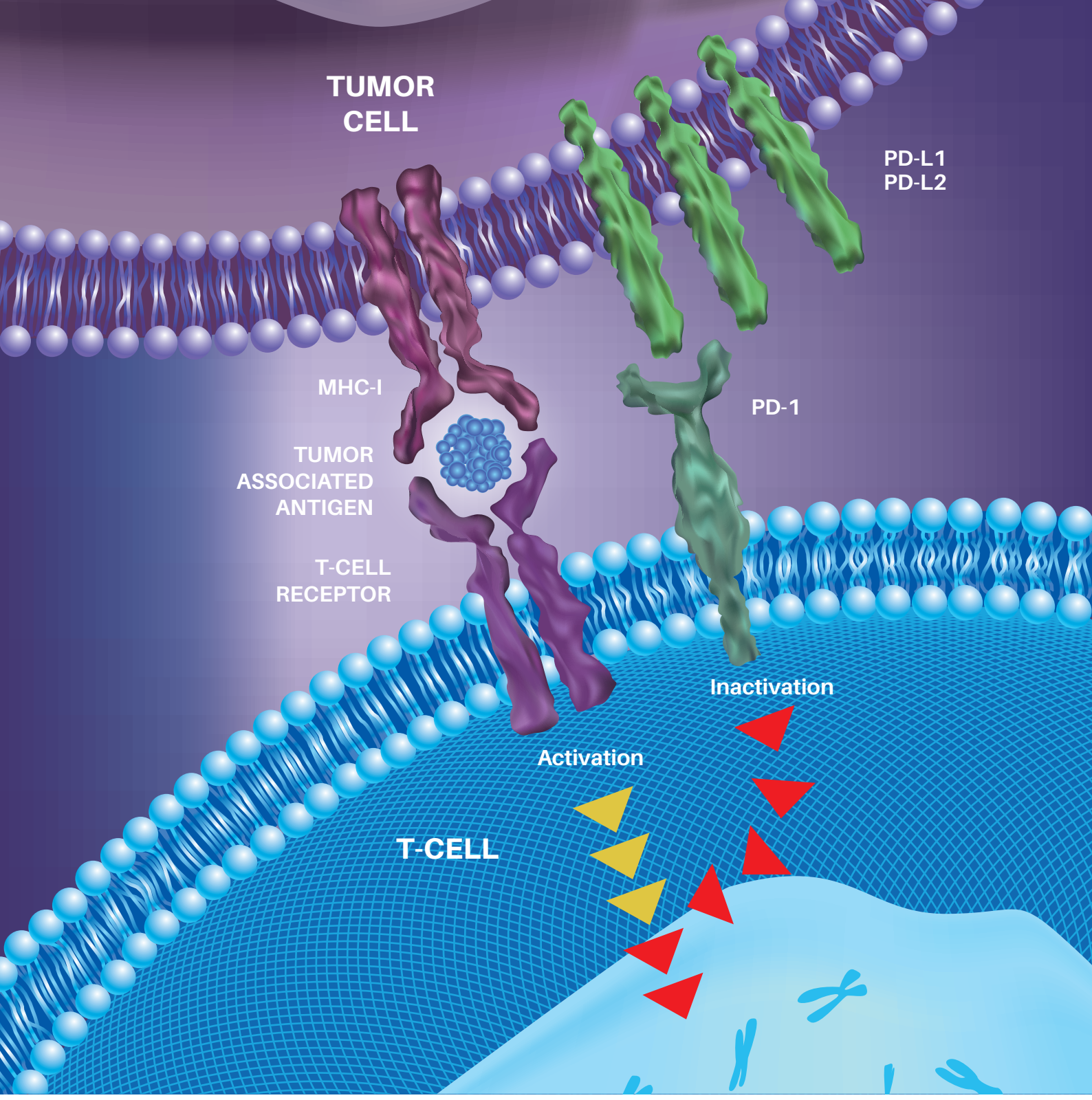


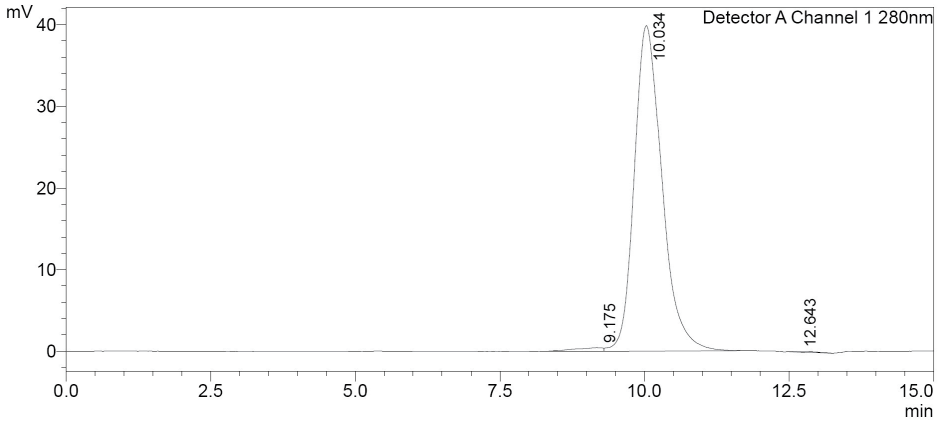
免疫检查点蛋白产品

金斯瑞生物科技
Make Research Easy

免疫检查点蛋白产品

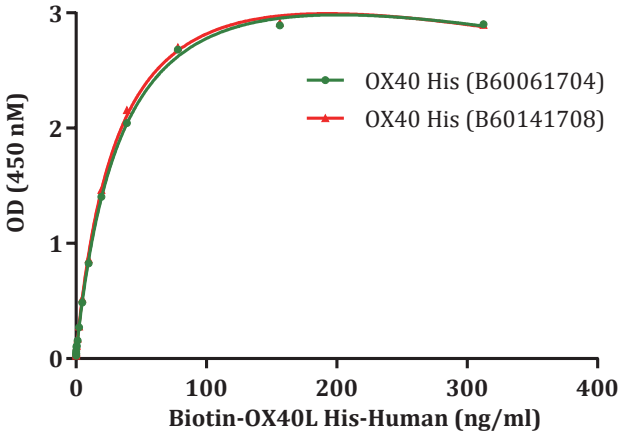
免疫检查点分子的研究在临床上获得了很大的成功，使得肿瘤的免疫治疗方法焕发了新的生命。免疫检查点涉及一系列的免疫调节通路，既能增加也能降低免疫反应。这些检查点的关键是一些存在于人体免疫系统的共刺激和共抑制分子、蛋白，它们会传递信号；共刺激分子受体会提高机体的免疫反应来对抗病原体，抑制性分子受体能负向调节T细胞活力，来保护过度的炎症反应。它们是癌症治疗中很值得关注的靶点，比如PD-1、PD-L1、B7、CD28、TIM、CD226家族。为方便该领域的科学研究及药物开发，金斯瑞研发上市了一系列免疫检查点重组蛋白，几乎涵盖了热点领域的各个家族的蛋白分子。全部产品具备高纯度，批次稳定性，且经过了多种应用活性的检测。

纯度检测举例 (PD-1, His, Human (Z03424))



PD-1, His, Human (Z03424) 使用SEC-HPLC检测纯度>98%

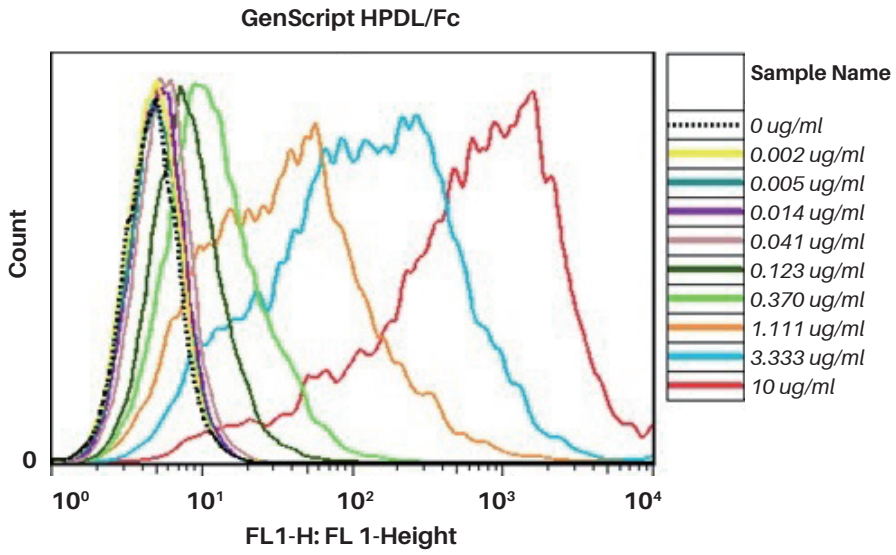
批次稳定性检测举例 (OX40/TNFRSF4, His, Human（Z03438）)



包被OX40 His, human 2 μg/mL (100 μL/well)，与Biotin-OX40L His, Human 结合的线性范围为1.22-19.53 ng/mL

多种应用活性检测举例：

1. PD-L1, Human (Z03371) 与CHO-K1/PD1 Stable Cell Line (M00529)结合实验



PD-L1 Fc Chimera, Human (Z03371) 结合稳定表达PD-1分子的稳定细胞系的平均荧光强度分析

Sample/Coc. (μg/ml)	10	3.333	1.111	0.370	0.123	0.041	0.014	0.005	0.002	0
hPDL1/Fc (GenScript)	528	111	37.3	12.5	8.23	5.6	5.09	4.91	4.83	4.7

Fig.1 Biological Activity: 利用不同浓度的PD-L1重组蛋白与表达PD-1的稳定细胞系共孵育，通过流式检测平均荧光强度（抗人的荧光抗体来检测配体-受体结合能力）。结果显示金斯瑞的重组PD-L1 Fc Chimera蛋白在低浓度下依然可以和稳定细胞系表面的PD-1分子有较强的结合能力。

2. CTLA-4 Fc Chimera, Human (Z03373) 用于抗体药物筛选

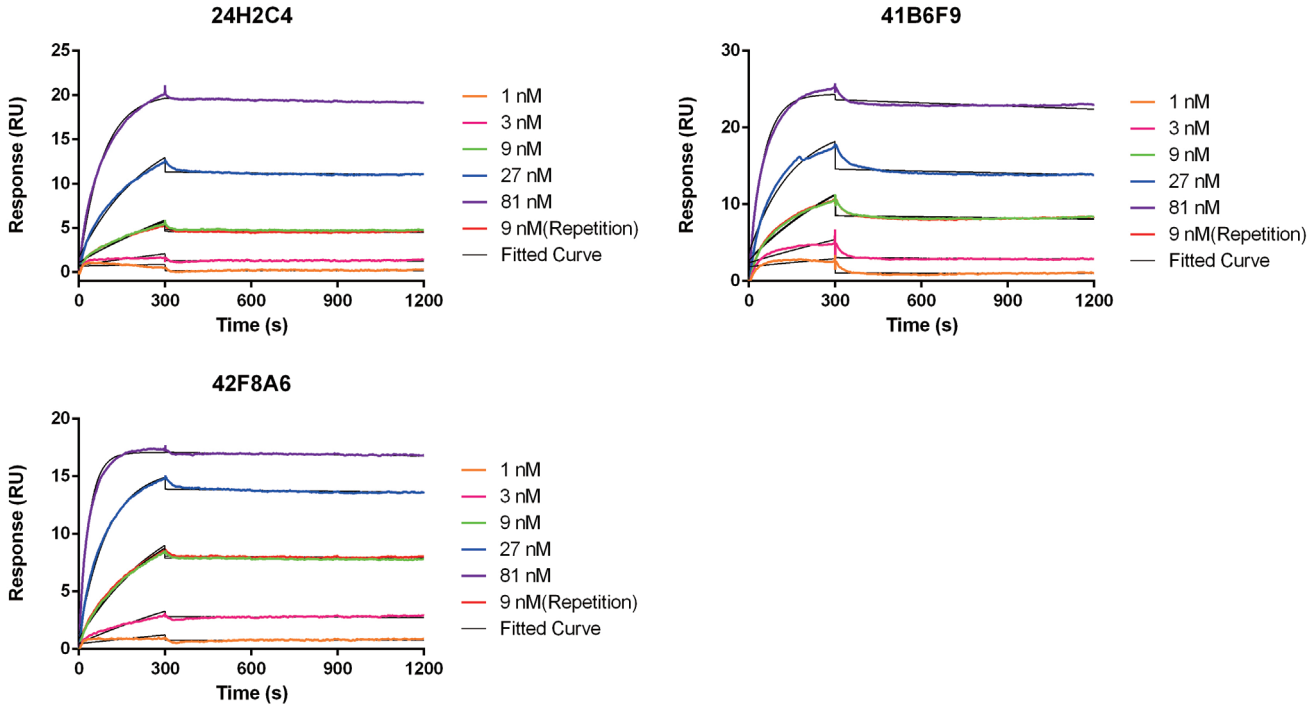


Fig.2 Biological Activity: 包被CTLA-4蛋白用于Biacore分析检测,对抗体24H2C4，41B4F9，42F8A6进行筛选。

3.CD47 His, Human (Z03419) 与SIRPa-FC, Human结合实验

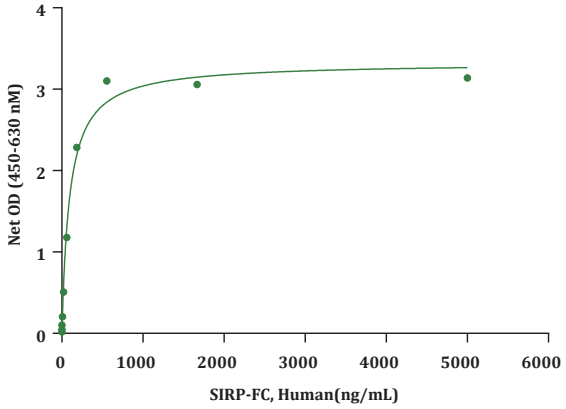


Fig.3 Biological Activity: 包被CD47 His, Human(Z03419) 2 μg/mL (100 μL/well) 与 SIRPa Fc Chimera, Human (Z03420) 结合的线性范围为 0.25-185 ng/mL

4. TIM-3 Fc, Human (Z03392)与Galectin-9, Human结合实验

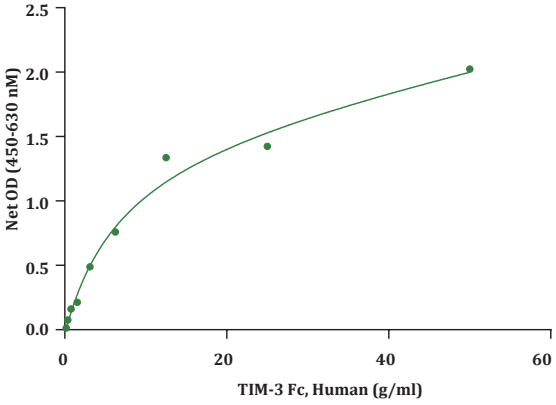


Fig.4 Biological Activity: 包被Galectin-9 His, Human 0.5 μg/mL (100 μL/well) 与 TIM-3 Fc, Human (Z03392) 结合的线性范围为 0.78-6.25 μg/mL

5. CD112 Fc, Human (Z03456) 与TIGIT Fc, Human (Z03439) 结合实验

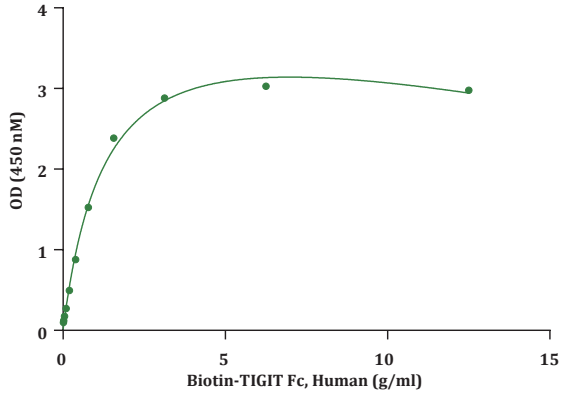


Fig.5 Biological Activity: 包被CD112 Fc, human 10 μg/mL (100 μL/well)与 Biotin-TIGIT Fc, Human 结合的线性范围为 0.2 – 1.56 μg/mL

Name	Cat. No	Source
CD40 Ligand, Human	Z02727	*E. coli*
HVEM Fc Chimera, Human	Z03224	*Sf9*
PD-1 Fc Chimera, Human	Z03370	*CHO*
PD-L1/B7-H1 Fc Chimera, Human	Z03371	*CHO*
CTLA-4 Fc Chimera, Human	Z03373	*CHO*
4-1BB/CD137 Fc Chimera, Human	Z03382	*CHO*
PD-1 Fc Chimera, Mouse	Z03383	*HEK293*
PD-L1/B7-H1 Fc Chimera, Mouse	Z03384	*HEK293*
CTLA-4 Fc Chimera, Mouse	Z03391	*CHO*
TIM-3 Fc Chimera, Human	Z03392	*HEK293*
TIM-3 Fc Chimera, Mouse	Z03401	*HEK293*
TIM-3, His, Mouse	Z03402	*HEK293*
OX40 Fc Chimera, Mouse	Z03403	*HEK293*
OX40/TNFRSF4, His , Mouse	Z03404	*HEK293*
4-1BB Ligand, Human	Z03406	*E.coli*
CD19 Fc Chimera, Human	Z03407	*CHO*
B7-1/CD80 Fc Chimera, Human	Z03409	*HEK293*
ICOS Fc Chimera, Human	Z03412	*HEK293*
CD28 Fc Chimera, Human	Z03413	*HEK293*
B7-H2/ICOSLG Fc Chimera, Human	Z03414	*HEK293*
B7-H2/ICOSLG, His, Human	Z03415	*HEK293*
B7-2/CD86 Fc Chimera, Human	Z03416	*HEK293*
PD-L2 Fc Chimera, Human	Z03417	*HEK293*
CD47 Fc Chimera, Human	Z03418	*HEK293*
CD47, His, Human	Z03419	*HEK293*
SIRPα Fc Chimera, Human	Z03420	*HEK293*
SIRPα, His, Human	Z03421	*HEK293*
LAG-3/CD223 Fc Chimera, Human	Z03422	*HEK293*
LAG-3/CD223 Fc Chimera, Mouse	Z03423	*HEK293*

Name	Cat. No	Source
PD-1, His, Human	Z03424	*HEK293*
PD-L1/B7-H1, His, Human	Z03425	*HEK293*
B7-H3/CD276 Fc Chimera, Human	Z03426	*HEK293*
B7-H3/CD276, His, Human	Z03427	*HEK293*
VISTA, His, Human	Z03428	*HEK293*
PVR/CD155 Fc Chimera, Human	Z03435	*HEK293*
PVR/CD155, His, Human	Z03436	*HEK293*
OX40/TNFRSF4, His, Human	Z03438	*HEK293*
TIGIT Fc Chimera, Human	Z03439	*HEK293*
GITR Fc Chimera, Human	Z03440	*HEK293*
BTLA Fc Chimera, Human	Z03441	*HEK293*
VISTA/B7-H5 Fc Chimera, Human	Z03442	*HEK293*
CD96, His, Human	Z03443	*HEK293*
CD48/SLAMF2 Fc Chimera, Human	Z03444	*HEK293*
2B4/CD244 Fc Chimera, Human	Z03445	*HEK293*
GITR Ligand Fc Chimera, Human	Z03446	*HEK293*
TMIGD2/CD28H Fc Chimera, Human	Z03447	*HEK293*
CD27/TNFRSF7 Fc Chimera, Human	Z03448	*HEK293*
CD160 Fc Chimera, Human	Z03449	*HEK293*
CD27 Ligand/CD70 Fc Chimera, Human	Z03450	*HEK293*
B7-2/CD86, His, Human	Z03452	*HEK293*
HHLA2/B7-H7 Fc Chimera, Human	Z03453	*HEK293*
DNAM-1/CD226 Fc Chimera, Human	Z03454	*HEK293*
DNAM-1/CD226, His, Human	Z03455	*HEK293*
Nectin-2/CD112 Fc Chimera, Human	Z03456	*HEK293*
TIGIT, His, Human	Z03457	*HEK293*
B7-H4 Fc Chimera, Human	Z03458	*HEK293*
PSGL-1 Fc Chimera, Human	Z03459	*HEK293*

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