

Recombinant Human CD48/SLAMF2 (His Tag)

产品信息

产品名称	产品编号	规格
Recombinant Human CD48/SLAMF2 (His Tag)	93567ES20	20 µg
	93567ES60	100 µg
	93567ES76	500 µg
	93567ES80	1 mg

产品描述

CD48, also known as BLAST-1, BCM-1, and SLAMF2, is a 65 kDa GPI-linked protein in the CD2 family of immunoglobulin superfamily proteins. The human CD48 cDNA encodes a 243 amino acid (aa) precursor that includes a 26 aa signal sequence, a 194 aa mature protein containing two Ig-like C2-type domains, and a 23 aa C-terminal propeptide. A soluble form of CD48 has been detected in the serum of lymphoid leukemia and arthritis patients. Human CD48 shares approximately 50% aa sequence identity with mouse and rat CD48. It shares 20%-26% aa sequence identity with comparable regions of human 2B4, BLAME, CD2F-10, CD84, CD229, CRACC, NTB-A, and SLAM. CD48 is expressed on most lineage-committed hematopoietic cells but not on hematopoietic stem cells or multipotent hematopoietic progenitors. Among dendritic cells (DC), CD48 is selectively expressed on circulating myeloid DC and resident bone marrow and thymus DC. CD2, 2B4, and heparan sulfate function as CD48 ligands. CD48 is competent to transduce signals and can also trigger signaling through CD2 or 2B4. CD48-CD2 interactions promote T cell activation and class switching to IgG2a in B cells. High affinity CD48-2B4 interactions can either promote or inhibit NK cell and cytotoxic T cell (CTL) activation. CD48-2B4 ligation does not directly trigger CTL activity but enhances signaling from the T cell receptor.

产品性质

别名 (Synonyms)	CD48 molecule; CD48; SLAMF2; BCM1; BLAST; BLAST1; BLAST1TCT.1; mCD48; MEM-102; TCT.1
Uniprot No.	P09326-1
表达区间及表达系统 (Source)	Recombinant Human CD48/SLAMF2 Protein is expressed from HEK293 Cells with His tag at the C-terminal. It contains Gln27-Ser220.
分子量(Molecular Weight)	The protein has a predicted MW of 23.4 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Tris-Bis PAGE result.
外观(Physical Appearance)	Sterile Filtered White lyophilized (freeze-dried) powder.
纯度 (Purity)	> 95% as determined by SDS-PAGE and HPLC
活性 (Activity)	ELISA Data: Immobilized Human CD48, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human 2B4, hFc Tag with the EC ₅₀ of 0.45µg/ml determined by ELISA.
内毒素 (Endotoxin)	< 1.0 EU per 1µg of the protein by the LAL method.
制剂 (Formulation)	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
复溶 (Reconstitution)	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.

运输与保存方法

冰袋运输。-20°C至-80°C保存，一年有效期。

复溶后，-20 至 -80°C，在未开封状态下保存 3-6 个月。复溶后，2-8°C 保存 2-7 天。

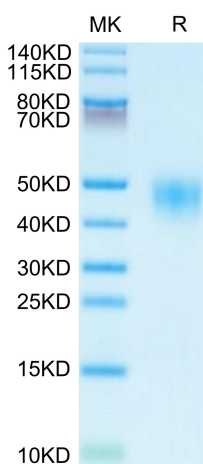
建议第一次使用时分装冻存，避免反复冻融。

注意事项

1. 避免反复冻融。
2. 为了您的安全和健康，请穿实验服并戴一次性手套操作。
3. 本产品仅作科研用途！

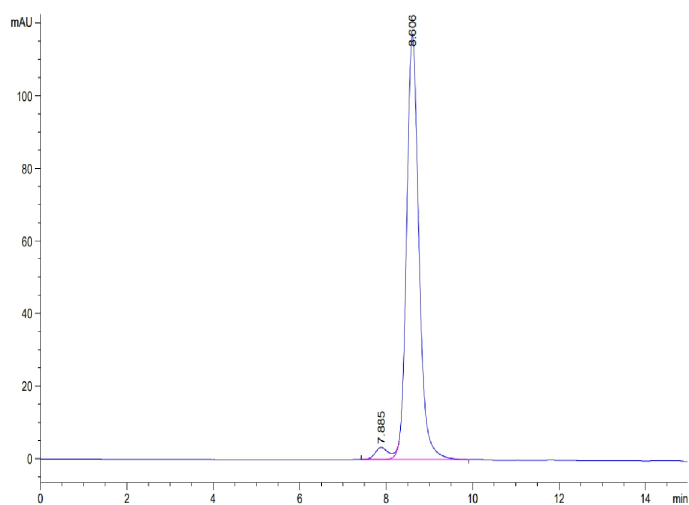
产品数据

Tris-Bis PAGE



Human CD48 on Tris-Bis PAGE under reduced conditions.
The purity is greater than 95%.

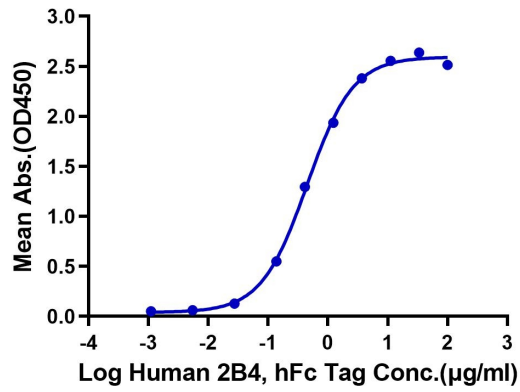
SEC-HPLC



The purity of Human CD48 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human CD48, His Tag ELISA 0.1µg Human CD48, His Tag Per Well



Immobilized Human CD48, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human 2B4, hFc Tag with the EC₅₀ of 0.45µg/ml determined by ELISA.