

Recombinant Human CD48 protein, Mouse IgG2a Fc-tagged, low endotoxin

Cat. No. CD48-357H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD48 protein (Gln27-Ser220)(low endotoxin), fused to Mouse IgG2a Fc tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	194
Description	CD48 antigen is also known as Signaling lymphocytic activation molecule 2, SLAM family member 2 (SLAMF2), Leukocyte antigen MEM-102, BCM1 surface antigen, B-lymphocyte activation marker BLAST-1. CD48 is a 65 kDa GPI-linked protein which belongs to the CD2 subfamily of immunoglobulin superfamily molecules. CD48 antigen contains two Ig-like C2-type (immunoglobulin-like) domains and two Ig-like V-type (immunoglobulin-like) domain. CD48 interacts with CD244 in a heterophilic manner. CD48 is ligand for CD2. CD48 might facilitate interaction between activated lymphocytes. CD48 is probably involved in regulating T-cell activation.
Form	Lyophilized from 0.22 um filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 49.2 kDa. The protein migrates as 64-70 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

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Endotoxin	Less than 0.1 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CD48
Official Symbol	CD48
Synonyms	CD48; CD48 molecule; BCM1, CD48 antigen (B cell membrane protein); CD48 molecule; CD48 antigen; BLAST; hCD48; mCD48; SLAMF2; TCT.1; BCM1 surface antigen; leukocyte antigen MEM-102; B-lymphocyte activation marker BLAST-1; CD48 antigen (B-cell membrane protein); BCM1; BLAST1; MEM-102
Gene ID	962
mRNA Refseq	NM_001256030
Protein Refseq	NP_001242959

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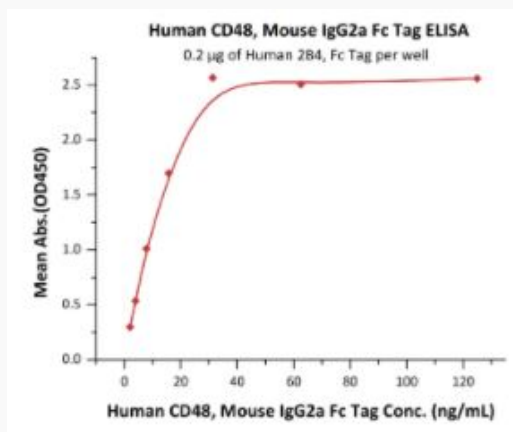
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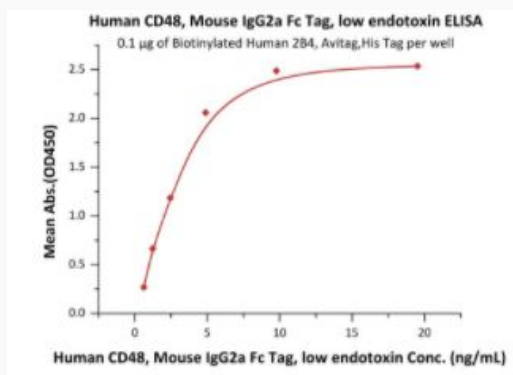
UniProt ID P09326

**Bioactivity-ELISA of
CD48-357H**



Immobilized Human CD48, Fc Tag at 2 µg/mL (100 µL/well) can bind Human CD48, Mouse IgG2a Fc Tag, low endotoxin with a linear range of 2-31 ng/mL (QC tested).

**Bioactivity-ELISA of
CD48-357H**



Immobilized Biotinylated Human 2B4, Avitag, His Tag (recommended for biopanning) at 1 µg/mL (100 µL/well) on streptavidin precoated (0.2 µg/well) plate, can bind Human CD48, Mouse IgG2a Fc Tag, low endotoxin with a linear range of

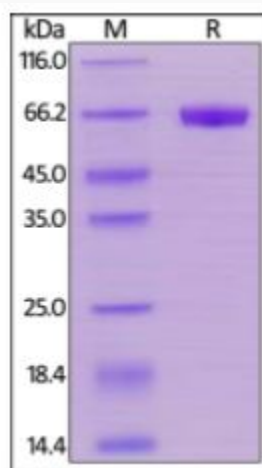
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0.3-5 ng/mL (Routinely tested).

SDS-PAGE of CD48-357H



Human CD48, Mouse IgG2a Fc Tag, low endotoxin on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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