

CD48 active protein

CD48 Protein, Human, Recombinant (hFc Tag)

CATALOG #
AAA257928

HOST
HEK293 Cells

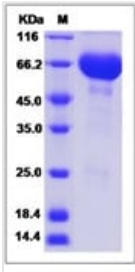
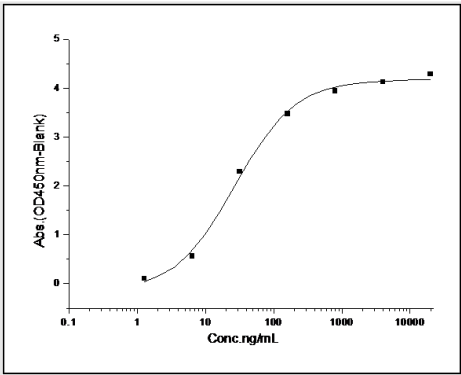
PRODUCT SYNONYMS

CD48; CD48 Protein; Human; Recombinant (hFc Tag); Human CD48/SLAMF2/BCM1 Protein (Fc Tag); BCM1 Protein; BLAST Protein; Blast-1 Protein; BLAST1 Protein; hCD48 Protein; mCD48 Protein; MEM-102 Protein; SLAMF2 Protein; CD48 molecule; CD48 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>90% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Ser220
Species	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Gln 27
Tag	C-human IgG1-Fc
Protein Construction	A DNA sequence encoding the human CD48 (NP_001769.2)(Met1-Ser220) was expressed with the Fc region of human IgG1 at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	1. Measured by its binding ability in a functional ELISA. 2. Immobilized human 2B4-His, at 10ug/mL (100uL/well) can bind human CD48-Fc. The EC50 of human CD48-Fc is 0.03-0.06ug/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.

IMAGES



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized human 2B4-His, at 10 ug/mL (100 uL/well) can bind human CD48-Fc. The EC50 of human CD48-Fc is 0.03-0.06 ug/mL.

ADDITIONAL INFORMATION

Related Product Information for CD48 active protein	Background: Cluster of Differentiation 48 (CD48), also known as SLAMF2, BCM-1 and BLAST-1, is a GPI-linked protein belonging to the CD2 subfamily of immunoglobulin superfamily molecules. CD2 and 2B4 (CD244) are known ligands for CD48. CD48 protein is expressed on most lineage-committed hematopoietic cells but not on hematopoietic stem cells or multipotent hematopoietic progenitors. CD48 protein performs biological functions in a variety processes including adhesion, pathogen recognition, cellular activation, and cytokine regulation, and emerges as a critical effector molecule in immune responses.
Product Categories/Family for CD48 active protein	Cancer Drug Targets
References	Messmer B, et al. (2006) CD48 stimulation by 2B4 (CD244)-expressing targets activates human NK cells. J Immunol. 176(8): 4646-50Milstein O, et al. (2008) Nanoscale increases in CD2-CD48-mediated intermembrane spacing decrease adhesion and reorganize the immunological synapse. J Biol Chem. 283(49): 34414-22.

NCBI AND UNIPROT INFORMATION

NCBI GI #	21361571
NCBI GeneID	962
NCBI Accession #	NP_001769.2
NCBI GenBank Nucleotide #	NM_001778.3
UniProt Accession #	P09326; Q5U055; Q8MGRO
Molecular Weight	19,429 Da
NCBI Official Full Name	CD48 antigen isoform 1
NCBI Official Synonym Full Names	CD48 molecule
NCBI Official Symbol	CD48
NCBI Official Synonym Symbols	BCM1; BLAST; hCD48; mCD48; BLAST1; SLAMF2; MEM-102
NCBI Protein Information	CD48 antigen
UniProt Protein Name	CD48 antigen
UniProt Gene Name	CD48
UniProt Synonym Gene Names	BCM1; BLAST1; SLAMF2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/hek293-active-protein/cd48/257928>