

CD226 active protein

CD226 Protein, Mouse, Recombinant (His Tag)

CATALOG #
AAA258146

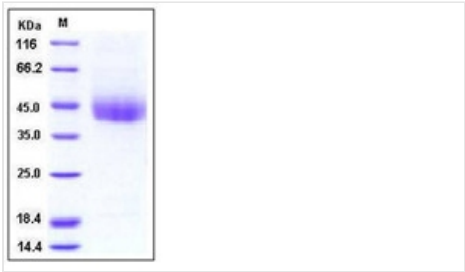
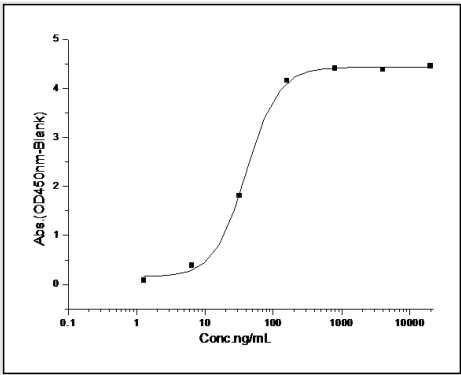
HOST
HEK293 Cells

PRODUCT SYNONYMS

CD226; CD226 Protein; Mouse; Recombinant (His Tag); Mouse CD226/DNAM-1 Protein (His Tag); BC051526 Protein; DNAM-1 Protein; DNAM1 Protein; Pta1 Protein; TLISA1 Protein; CD226 molecule; CD226 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>97% 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-Pro254
Species	Mouse
Activity	Measured by its binding ability in a functional ELISA. Immobilized mouse DNAM1 at 2ug/ml (100uL/well) can bind mouse CD155 with a linear range of 6.4-160ng/mL.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Glu 19
Tag	C-His
Protein Construction	A DNA sequence encoding the mouse DNAM1 (NP_848802.2) extracellular domain (Met 1-Pro 254) was fused with a polyhistidine tag 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.
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.



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized mouse DNAM1 at 2 ug/ml (100 ul/well) can bind mouse CD155 with a linear ranger of 6.4-160 ng/ml.

ADDITIONAL INFORMATION

Related Product Information for CD226 active protein	Background: The cluster of differentiation (CD) system is commonly used as cell markers in Immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules which associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. CD226, also known as PTA1 or DNAM-1, is a member of the immunoglobulin superfamily containing 2 Ig-like domains of the V-set. High rate of CD226 (Cluster of Differentiation 226) is found on the surface of natural killer cells, platelets, monocytes and a subset of T cells. CD226 have binding sites with CD112 and CD155 and mediate cellular adhesion to other cells containing its ligands.
Product Categories/Family for CD226 active protein	ITIM/ITAM Immunoreceptors and Related Molecules Cancer Drug Targets
References	Zola H, et al. (2007) CD molecules 2006-human cell differentiation molecules. J Immunol Methods. 318 (1-2): 1-5.Ho IC, et al. (2009) GATA3 and the T-cell lineage: essential functions before and after T-helper-2-cell differentiation. Nat Rev Immunol. 9 (2): 125-35.Matesanz-Isabel J, et al. (2011) New B-cell CD molecules. Immunology Letters.134 (2): 104-12.

NCBI AND UNIPROT INFORMATION

NCBI GI #	85540456
NCBI GeneID	225825
NCBI Accession #	NP_848802.2
NCBI GenBank Nucleotide #	NM_178687.2
UniProt Accession #	Q8K4F0
Molecular Weight	38,063 Da
NCBI Official Full Name	CD226 antigen isoform a
NCBI Official Synonym Full Names	CD226 antigen
NCBI Official Symbol	Cd226
NCBI Official Synonym Symbols	Pta1; DNAM1; DNAM-1; TLISA1; BC051526
NCBI Protein Information	CD226 antigen; platelet and T cell activation antigen 1; platelet and T-cell activation antigen 1
UniProt Protein Name	CD226 antigen
UniProt Gene Name	Cd226

UniProt Synonym Gene Names	Pta1
UniProt Entry Name	CD226_MOUSE

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://stage.aaabiotech.com/hek293-cells-active-protein/cd226/258146>