

CD166/ALCAM Active Protein | ALCAM active protein

CD166/ALCAM Protein, Mouse, Recombinant (His Tag)

CATALOG #
AAA258115

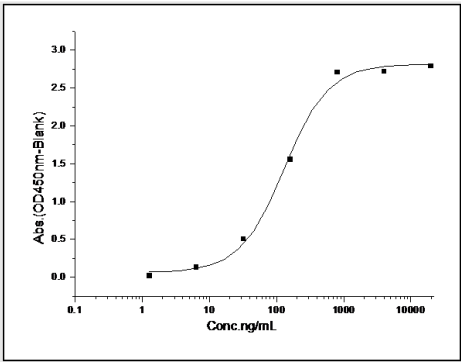
HOST
HEK293 Cells

PRODUCT SYNONYMS

CD166/ALCAM; CD166/ALCAM Protein; Mouse; Recombinant (His Tag); Mouse ALCAM/CD166 Protein (His Tag); AI853494 Protein; BEN Protein; CD166 Protein; DM-GRASP Protein; MuSC Protein; SC1 Protein; activated leukocyte cell adhesion molecule; ALCAM active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>98% 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-Lys52 7
Species	Mouse
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Trp 28
Tag	C-His
Protein Construction	A DNA sequence encoding the extracellular domain (Met 1-Lys 527) of mouse ALCAM (NP_033785.1) precursor was expressed, 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.
Activity	Immobilized mouse ALCAM-His at 10ug/ml (100uL/well) can bind mouse CD6-Fc. The EC50 of mouse CD6-Fc is 0.08-0.18ug/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.



SDS-PAGE

Application Data
Immobilized mouse ALCAM-His at 10 ug/ml (100 ul/well) can bind mouse CD6-Fc, The EC50 of mouse CD6-Fc is 0.08-0.18 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for ALCAM active protein	Background: Activated leukocyte cell adhesion molecule (ALCAM)/Cluster of differentiation (CD166) is a type I transmembrane cell adhesion molecule belonging to the Ig superfamily and a ligand for CD6 that is expressed on T lymphocytes. The extracellular domain of ALCAM contains five Ig-like domains (three Ig-like C2-type domains and two Ig-like V-type domains), of which the amino-terminal V1 domain is essential for ligand binding and ALCAM-mediated cell aggregation. ALCAM mediates both heterophilic (ALCAM-CD6) and homophilic (ALCAM-ALCAM) cell-cell interactions. ALCAM/CD6 interaction plays a role in T cell development and T cell regulation, as well as in the binding of T- and B-cells to activated leukocytes. Recently, homophilic (ALCAM-ALCAM) adhesion was shown to play important roles in tight cell-to-cell interaction and regulation of stem cell differentiation. While expressed in a wide variety of tissues, ALCAM is usually restricted to subsets of cells involved in dynamic growth and/or migration, including neural development, branching organ development, hematopoiesis, immune response and tumor progression. And CD166 is regarded as a potential novel breast cancer indicator and therapeutic target.
References	Swart GW. (2002) Activated leukocyte cell adhesion molecule (CD166/ALCAM): developmental and mechanistic aspects of cell clustering and cell migration. Eur J Cell Biol. 81(6): 313-21.Fujiwara H, et al. (2003) Human blastocysts and endometrial epithelial cells express activated leukocyte cell adhesion molecule (ALCAM/CD166). J Clin Endocrinol Metab. 88(7): 3437-43.Jeziarska A, et al. (2006) ALCAM/CD166 protects breast cancer cells against apoptosis and autophagy. Med Sci Monit. 12(8): BR263-73.Kahlert C, et al. (2009) Increased expression of ALCAM/CD166 in pancreatic cancer is an independent prognostic marker for poor survival and early tumour relapse. Br J Cancer. 101(3): 457-64.

NCBI AND UNIPROT INFORMATION

NCBI GI #	31791059
NCBI GeneID	11658
NCBI Accession #	NP_033785.1
NCBI GenBank Nucleotide #	NM_009655.2
UniProt Accession #	Q61490; O70136; Q8CDA5; Q8R2T0
Molecular Weight	65,092 Da
NCBI Official Full Name	CD166 antigen
NCBI Official Synonym Full Names	activated leukocyte cell adhesion molecule
NCBI Official Symbol	Alcam
NCBI Official Synonym Symbols	BEN; SC1; MuSC; CD166; AI853494; DM-GRASP
NCBI Protein Information	CD166 antigen
UniProt Protein Name	CD166 antigen

UniProt Gene Name	Alcam
UniProt Entry Name	CD166_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://www.aaabiotech.com/hek293-active-protein/cd166-alcam/258115>