

Datasheet for ABIN7194108
CD166 Protein (His tag)



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Overview

Quantity:	100 µg
Target:	CD166 (ALCAM)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD166 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human ALCAM/CD166 Protein (His Tag)(Active)
Sequence:	Met 1-Ala 526
Characteristics:	A DNA sequence encoding the extracellular domain (Met 1-Ala 526) of human ALCAM (NP_001618.2) was expressed, with the C-terminal polyhistidine tag.
Purity:	> 98 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Immobilized human ALCAM-His at 10 µg/ml (100 µl/well) can bind mouse CD6-Fc , The EC50 of mouse CD6-Fc is 0.1-0.22 µg/ml.

Target Details

Target:	CD166 (ALCAM)
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Target Details

Alternative Name:	ALCAM/CD166 (ALCAM Products)
Background:	<p>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.</p> <p>Synonym: CD166 antigen, Activated leukocyte cell adhesion molecule, CD166, ALCAM, MEMD</p>
Molecular Weight:	57.4 kDa
NCBI Accession:	NP_001618

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C, -20 °C, -80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>