Recombinant Human ALCAM/CD166 Protein

Catalog No.: RP00119

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Sequence Information

Species
Human

Gene ID
214

Swiss Prot
Q13740

Tags
C-hFc&His

Synonyms
ALCAM,CD166,MEMD, MEMD

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
85.57 kDa

Observed MW
120 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

This protein is activated leukocyte cell adhesion molecule (ALCAM), also known as CD166 (cluster of differentiation 166), which is a member of a subfamily of immunoglobulin receptors with five immunoglobulin-like domains (VVC2C2C2) in the extracellular domain. This protein binds to T-cell differentiation antigene CD6, and is implicated in the processes of cell adhesion and migration. Multiple alternatively spliced transcript variants encoding different isoforms have been found.

Basic Information

Description
Recombinant Human ALCAM/CD166 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Met1-Ala526) of human ALCAM/CD166 (Accession #NP_001618.2) fused with an Fc, 6×His tag at the C-terminus.

Activity
1.Measured by its binding ability in a functional ELISA.Immobilized Human CD6 at 1 μg/mL (100 μL/well) can bind Human CD166 with a linear range of 0.05-1.2 ng/mL.
2.Measured by its ability to block adhesion of Jurkat cells to immobilized Recombinant Human CD6 Protein . The ED_{50} for this effect is 2.7-10.8 μg/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

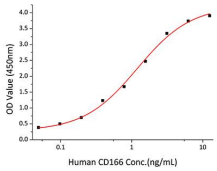
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

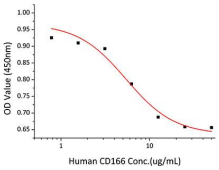
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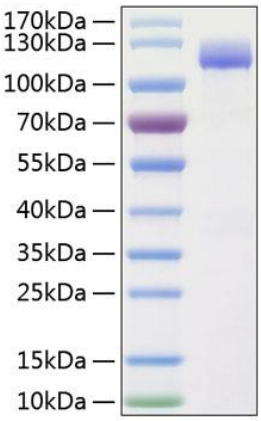
Validation Data



Immobilized recombinant Human CD6 at 1 μg/mL (100 μL/well) can bind Human CD166 with a linear range of 0.05-1.2ng/mL.



Recombinant Human CD166 block adhesion of Jurkat cells to immobilized Recombinant Human CD6 Protein . The ED_{50} for this effect is 2.7-10.8 μg/mL.



Recombinant Human ALCAM/CD166 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.