

Biotinylated Recombinant Human ALCAM/CD166 Protein (Primary Amine Labeling)

Catalog No.: RP00620B **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	214	Q13740-1

Tags

C-His

Synonyms

CD166; ALCAM; MEMD; CD6L; KG-CAM

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE

Calculated MW	Observed MW
57 kDa	70-80 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method

Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

Brain metastasis (BM) in non-small-cell lung cancer (NSCLC) has a very poor prognosis. Recent studies have demonstrated the importance of cell adhesion molecules in tumor metastasis. Elevated levels of ALCAM expression promote BM formation in NSCLC through increased tumor cell dissemination and interaction with the brain endothelial cells. Therefore, ALCAM could be targeted to reduce the occurrence of BM.

Basic Information

Description

Biotinylated Recombinant Human ALCAM/CD166 Protein (Primary Amine Labeling) is produced by HEK293 cells expression system. The target protein is expressed with sequence (Trp28-Ala526) of Human ALCAM/CD166 (Primary Amine Labeling) (Accession #Q13740-1) fused with a C-His tag at the C-terminus.

Bio-Activity

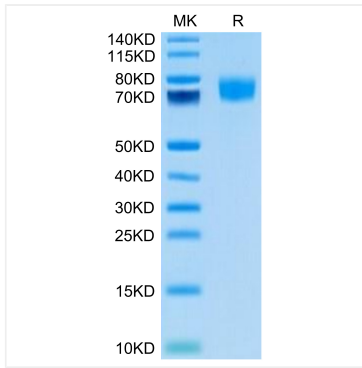
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

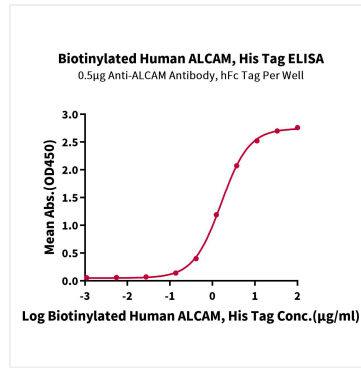
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Biotinylated Human ALCAM (Primary Amine Labeling) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



Immobilized Anti-ALCAM Antibody, hFc Tag at 5 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Human ALCAM, His Tag with the EC_{50} of 1.6 µg/mL determined by ELISA.