

Biotinylated Human ALCAM/CD166 Protein (Primary Amine Labeling)



Cat. No. ALC-HM101B

Description	
Source	Recombinant Biotinylated Human ALCAM/CD166 Protein (Primary Amine Labeling) is expressed from HEK293 with His tag at the C-Terminus. It contains Trp28-Ala526.
Accession	Q13740-1
Molecular Weight	The protein has a predicted MW of 57 kDa. Due to glycosylation, the protein migrates to 70-80 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per ug by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

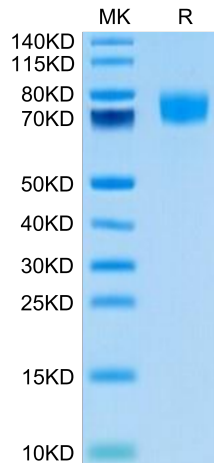
Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

Assay Data

Tris-Bis PAGE

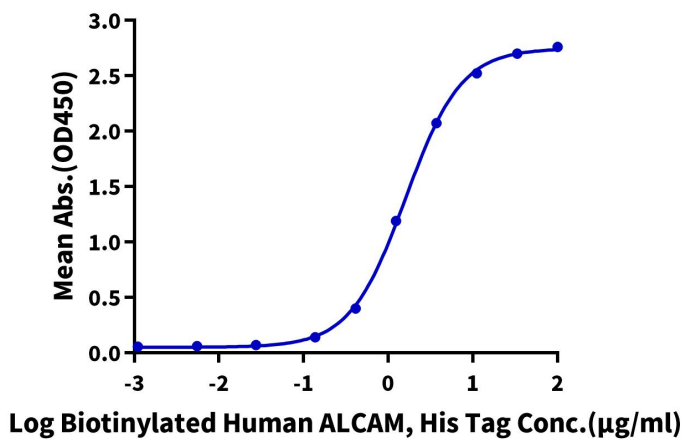


Biotinylated Human ALCAM (Primary Amine Labeling) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Biotinylated Human ALCAM, His Tag ELISA

0.5µg Anti-ALCAM Antibody, hFc Tag Per Well



Immobilized Anti-ALCAM Antibody, hFc Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human ALCAM, His Tag with the EC50 of 1.6µg/ml determined by ELISA.