

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

Cat. No. ALC-HM101B

## Description

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

## Formulation and Storage

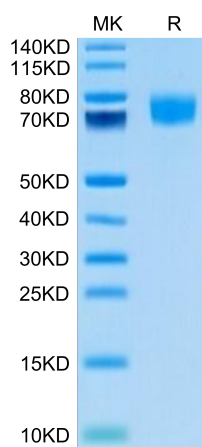
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months 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

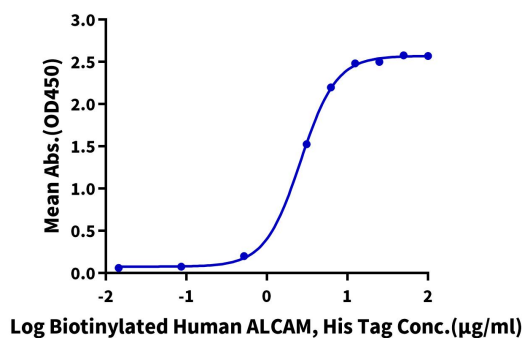
### Bis-Tris PAGE



Biotinylated Human ALCAM (Primary Amine Labeling) on Bis-Tris 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 2.62µg/ml determined by ELISA.