

# Biotinylated Mouse ALCAM/CD166 Protein

Cat. No. ALC-MM401B

## Description

<b>Source</b>	Recombinant Biotinylated Mouse ALCAM/CD166 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Tyr28-Lys527.
<b>Accession</b>	Q61490
<b>Molecular Weight</b>	The protein has a predicted MW of 58.9 kDa. Due to glycosylation, the protein migrates to 75-85 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per ug by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

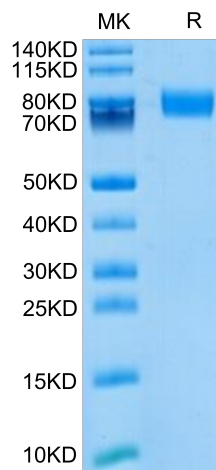
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein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

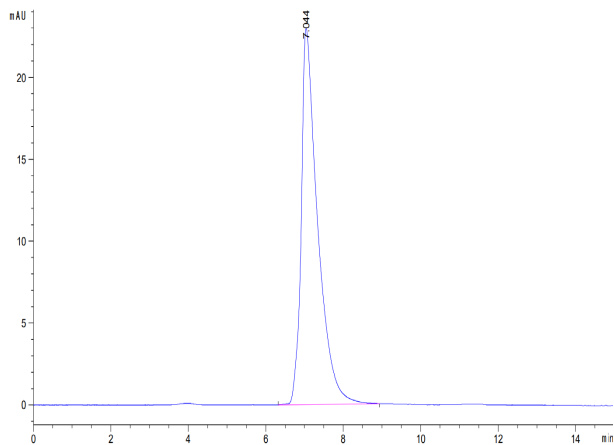
### Tris-Bis PAGE



Biotinylated Mouse ALCAM on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data



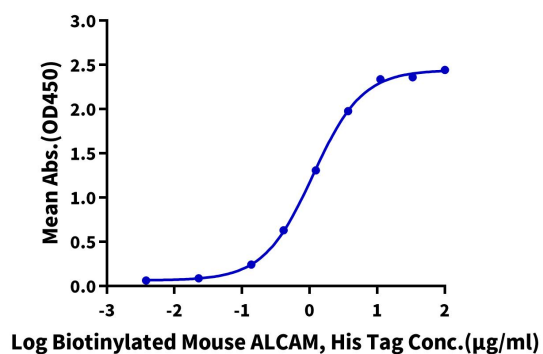
The purity of Biotinylated Mouse ALCAM is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Biotinylated Mouse ALCAM, His Tag ELISA**

0.1µg Human CD6, His Tag Per Well



Immobilized Human CD6, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Mouse ALCAM, His Tag with the EC50 of 1.12µg/ml determined by ELISA.