

Datasheet for ABIN7273817

**CD166 Protein (AA 28-526) (Fc Tag)****4** Images[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	CD166 (ALCAM)
Protein Characteristics:	AA 28-526
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD166 protein is labelled with Fc Tag.

## Product Details

Purpose:	Human ALCAM/CD166 Protein
Sequence:	Trp28-Ala526
Characteristics:	Recombinant Human ALCAM/CD166 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Trp28-Ala526.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human ALCAM, hFc Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-ALCAM Antibody, hFc Tag with the EC50 of 0.3ug/ml determined by ELISA. The affinity constant of 0.53 µM as determined in SPR assay (Biacore T200). See testing image for detail.

## Target Details

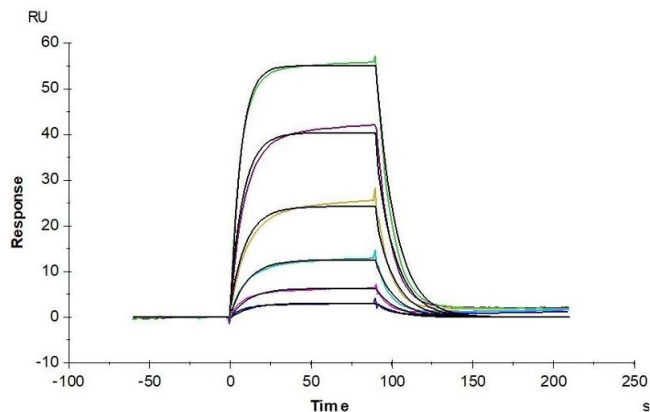
Target:	CD166 (ALCAM)
Alternative Name:	ALCAM ( <a href="#">ALCAM Products</a> )
Background:	Brain metastasis (BM) in non-small-cell lung cancer (NSCLC) has a very poor prognosis. Recent studies have demonstrated the importance of cell adhesion molecules in tumor metastasis. Elevated levels of ALCAM 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.
Molecular Weight:	82.7 kDa. Due to glycosylation, the protein migrates to 90-115 kDa based on Tris-Bis PAGE result.

## Application Details

Restrictions:	For Research Use only
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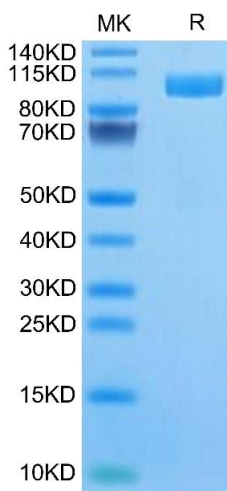
## Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS ( pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months 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.
Expiry Date:	12 months



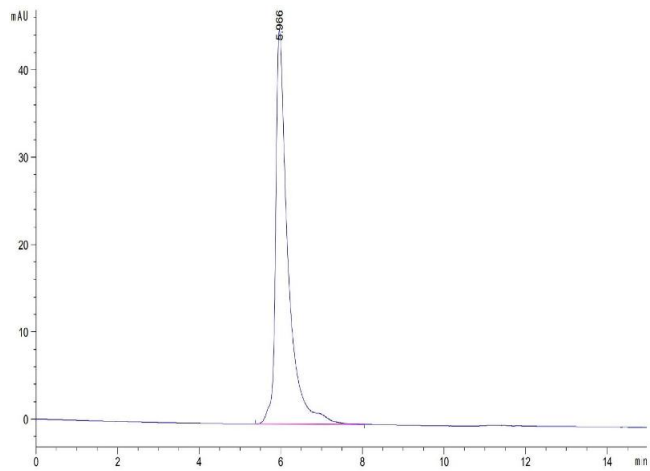
Surface Plasmon Resonance

**Image 1.** Human ALCAM, hFc Tag captured on CM5 Chip via Protein A can bind Human CD6, His Tag with an affinity constant of 0.53  $\mu\text{M}$  as determined in SPR assay (Biacore T200).



SDS-PAGE

**Image 2.** Human ALCAM on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 3.** The purity of Human ALCAM is greater than 95 % as determined by SEC-HPLC.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7273817.