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Datasheet for ABIN7275297

MCAM Protein (AA 24-559) (His tag)

3 Images

Overview

Quantity:	100 µg
Target:	MCAM
Protein Characteristics:	AA 24-559
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MCAM protein is labelled with His tag.

Product Details

Purpose:	Human MUC18/CD146 Protein
Sequence:	Val24-Gly559
Characteristics:	Recombinant Human MUC18/CD146 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Val24-Gly559.
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 MUC18, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-MUC18, hFc Tag with the EC50 of 12.3ng/ml determined by ELISA. See testing image for detail.

Target Details

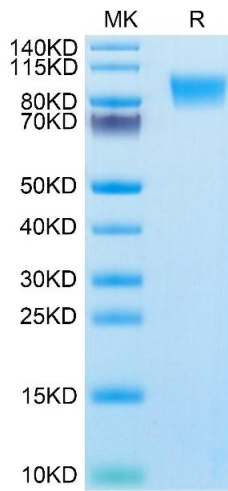
Target:	MCAM
Alternative Name:	MUC18 (MCAM Products)
Background:	METCAM/MUC18 is an integral membrane cell adhesion molecule (CAM) in the Ig-like gene super-family. It can carry out common functions of CAMs which is to perform intercellular interactions and interaction of cell with extracellular matrix in tumor microenvironment, to interact with various signaling pathways and to regulate general behaviors of cells. The above positive correlation is fortuitous, actually METCAM/MUC18 acts as a tumor and metastasis suppressor for the ovarian carcinoma cells.
Molecular Weight:	60.8 kDa. Due to glycosylation, the protein migrates to 80-110 kDa based on Tris-Bis PAGE result.
UniProt:	P43121

Application Details

Restrictions:	For Research Use only
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Handling

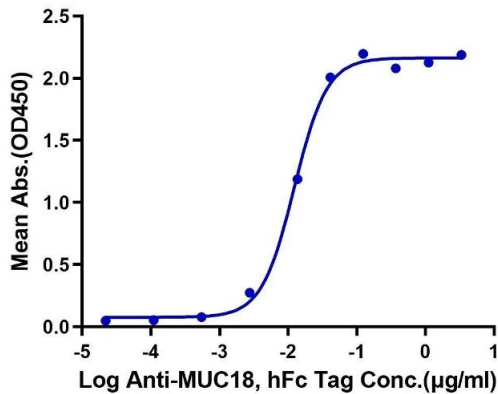
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant 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



SDS-PAGE

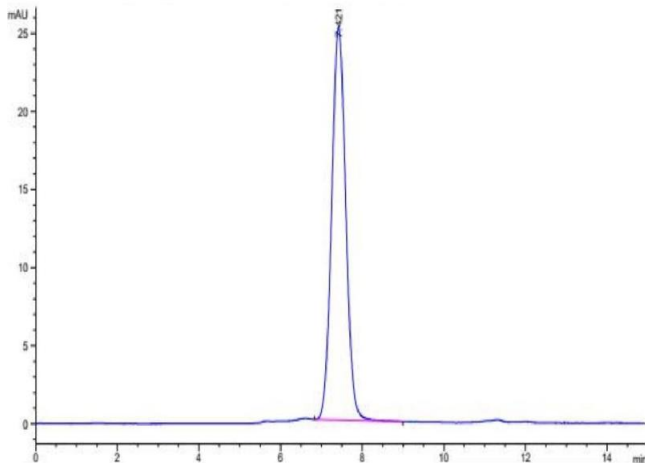
Image 1. Human MUC18/CD146 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Human MUC18, His Tag ELISA
0.05µg Human MUC18, His Tag Per Well



ELISA

Image 2. Immobilized Human MUC18, His Tag at 0.5 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-MUC18, hFc Tag with the EC50 of 12.3 ng/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Human MUC18/CD146 is greater than 95 % as determined by SEC-HPLC.