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# EpCAM Protein (AA 24-265) (His tag)



## **Images**



#### Overview

Quantity:	100 μg
Target:	EpCAM (EPCAM)
Protein Characteristics:	AA 24-265
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EpCAM protein is labelled with His tag.

#### **Product Details**

Purpose:	Human EpCAM/TROP1 Protein
Sequence:	Gln24-Lys265
Characteristics:	Recombinant Human EpCAM/TROP1 Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Gln24-Lys265.
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 EpCAM, His Tag at 0.2µg/ml (100µl/Well). Dose response curve for Anti-
	EpCAM Antibody, hFc Tag with the EC50 of 8.7ng/ml determined by ELISA. See testing image
	for detail.

#### **Target Details**

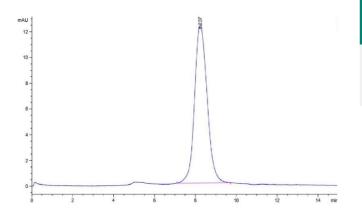
Target:	EpCAM (EPCAM)
Alternative Name:	EpCAM (EPCAM Products)
Background:	Epithelial Cellular Adhesion Molecule (EpCAM), also known as KS1/4, gp40, GA733-2, 17-1A, and TROP-1, is a 40 kDa transmembrane glycoprotein that consists of a 242 amino acid (aa) extracellular domain with two EGF-like repeats, a 23 aa transmembrane segment, and a 26 aa cytoplasmic domain.
Molecular Weight: UniProt:	28.2 kDa. Due to glycosylation, the protein migrates to 30-45 kDa based on Tris-Bis PAGE result.  P16422

## **Application Details**

Restrictions: For Research Use only

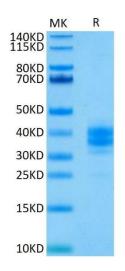
# Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu$ g/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from $0.22\mu m$ 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



# Size-exclusion chromatography-High Pressure Liquid Chromatography

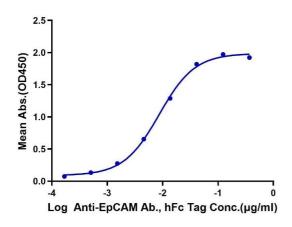
**Image 1.** The purity of Human EpCAM is greater than  $95\,\%$  as determined by SEC-HPLC.



#### **SDS-PAGE**

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





#### **ELISA**

**Image 3.** Immobilized Human EpCAM, His Tag at  $0.2 \, \mu g/mL$  (100  $\mu L/Well$ ). Dose response curve for Anti-EpCAM Antibody, hFc Tag with the EC50 of 8.7 ng/mL determined by ELISA.