Human EpCAM/TROP1 Protein, Ultra Low Endotoxin

Cat. No. CAM-HM2EP-UL

Description

Source	Recombinant Human EpCAM/TROP1 Protein is expressed from HEK293 with hFc tag at the C-Terminus.
	It contains Gln24-Lys265.
Accession	P16422
Molecular Weight	The protein has a predicted MW of 54.2 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.001 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

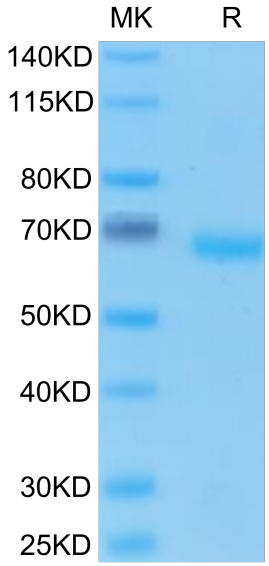
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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

Epithelial Cellular Adhesion Molecule (EpCAM), also known as KS1/4, gp40, GA733-2, 17-1A, and TROP1, is a 40 kDa transmembrane glycoprotein that consists of a 242 amino acid (aa) extracellular domain with two EGFlike repeats, a 23 aa transmembrane segment, and a 26 aa cytoplasmic domain.

Assay Data

Bis-Tris PAGE



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

SEC-HPLC

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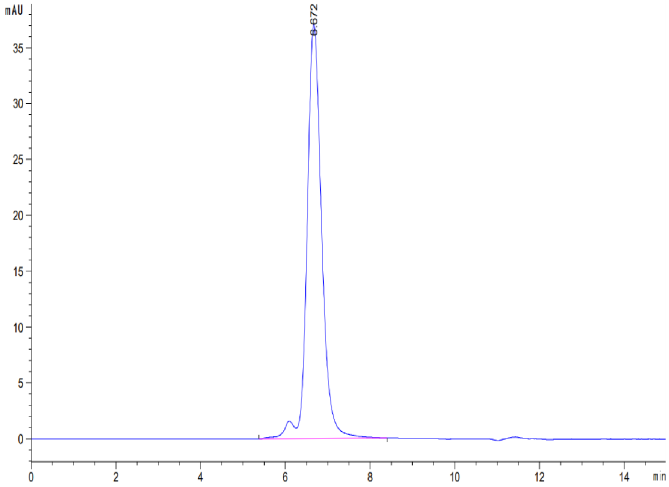
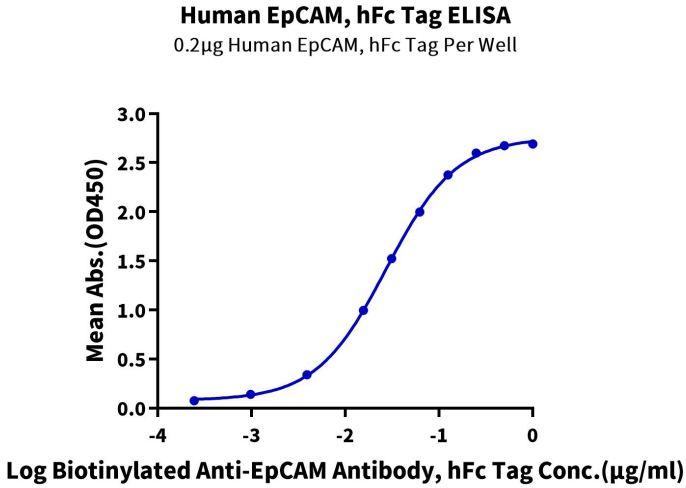
Assay Data



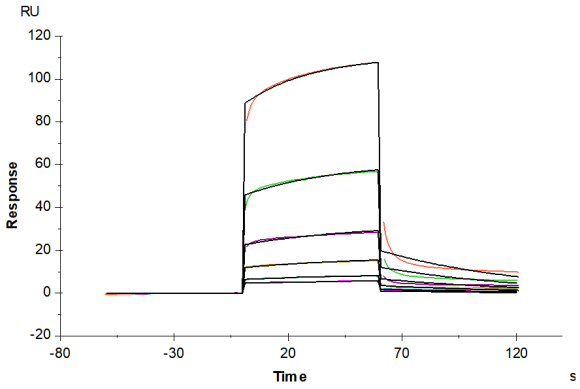
The purity of Human EpCAM is greater than 95% as determined by SEC-HPLC.

ELISA Data



Immobilized Human EpCAM, hFc Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated Anti-EpCAM Antibody, hFc Tag with the EC50 of 27.4ng/ml determined by ELISA (QC Test).

SPR Data



Human EpCAM, hFc Tag captured on CM5 Chip via Protein A can bind Human AGR-2, His Tag with an affinity constant of 6.91 μM as determined in SPR assay (Biacore T200).