

Human CEACAM-1/CD66a Protein

Cat. No. CEA-HM201

Description

Source	Recombinant Human CEACAM-1/CD66a Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln35-Gly428.
Accession	P13688-1
Molecular Weight	The protein has a predicted MW of 44.4 kDa. Due to glycosylation, the protein migrates to 68-115 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

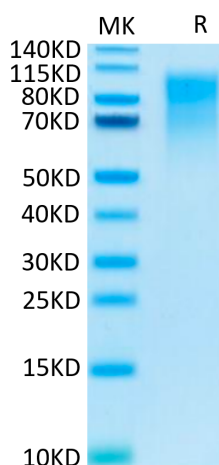
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled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

Background

Carcinoembryonic antigen-related cell adhesion molecule 1 (CEACAM-1) is the major antigen of the CD66 cluster of granulocyte differentiation antigens. The present study aimed to assess the biological function of CEACAM-1 on the growth of human colorectal cancer (CRC) cells in vitro.

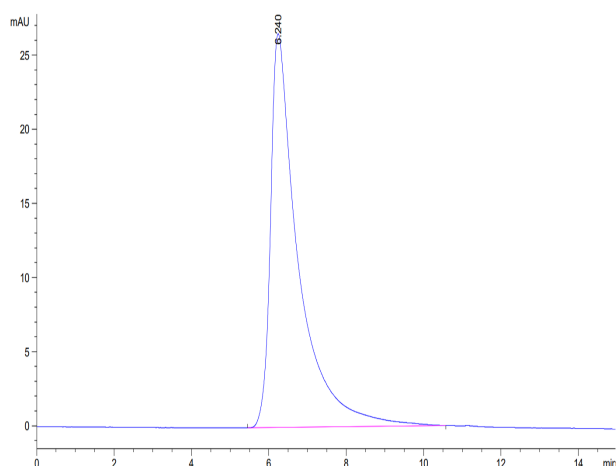
Assay Data

Tris-Bis PAGE



Human CEACAM-1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



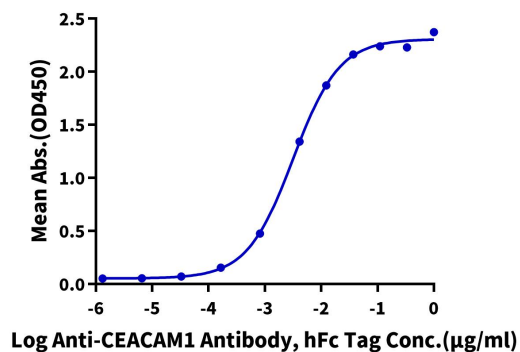
The purity of Human CEACAM-1 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

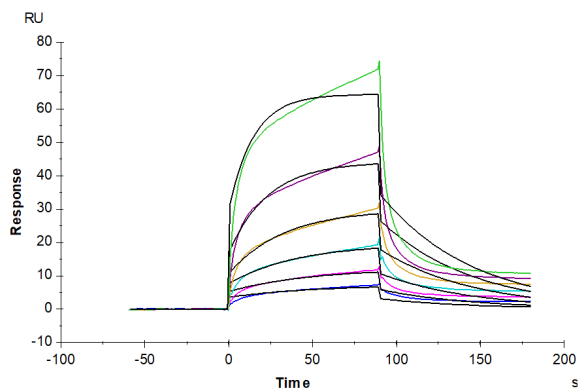
Human CEACAM-1, His Tag ELISA

0.05µg Human CEACAM-1, His Tag Per Well



Immobilized Human CEACAM-1 at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-CEACAM-1 Antibody, hFc Tag with the EC50 of 3.2ng/ml determined by ELISA (QC Test).

SPR Data



Human CEACAM-1, His Tag immobilized on CM5 Chip can bind Human CEACAM-7, His Tag with an affinity constant of 0.37 µM as determined in SPR assay (Biacore T200).