

Human CEACAM-1/CD66a Protein, Ultra Low Endotoxin



Cat. No. CEA-HM201-UL

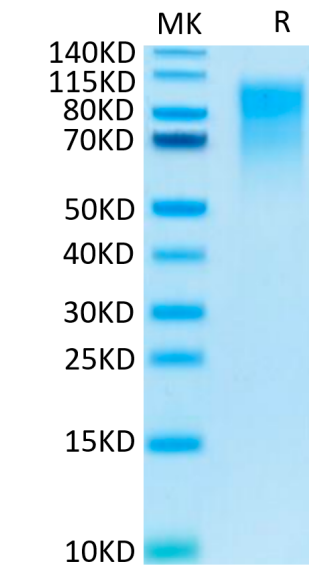
Description	
Source	Recombinant Human CEACAM-1/CD66a Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln35-Gly428.
Accession	P13688-1
Molecular Weight	The protein has a predicted MW of 44.4 kDa. Due to glycosylation, the protein migrates to 68-115 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 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	
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

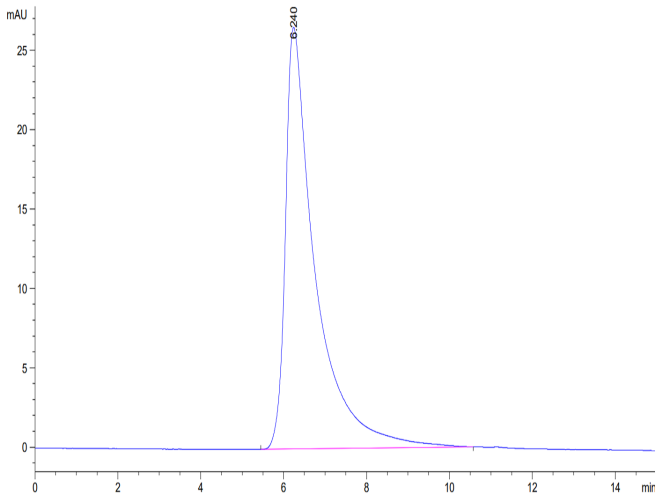
Bis-Tris PAGE



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

SEC-HPLC

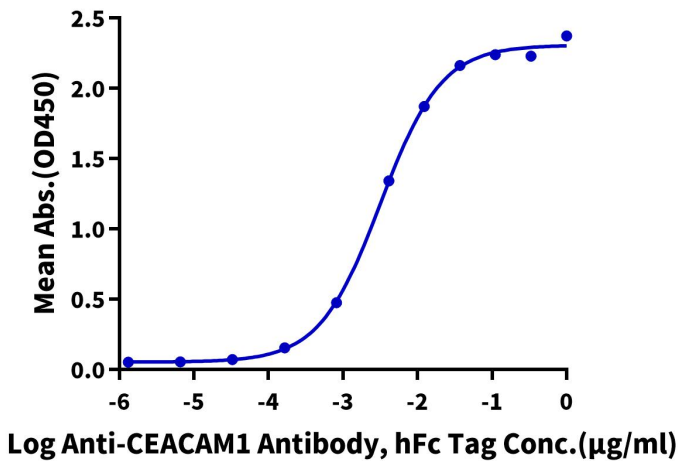
Assay Data



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

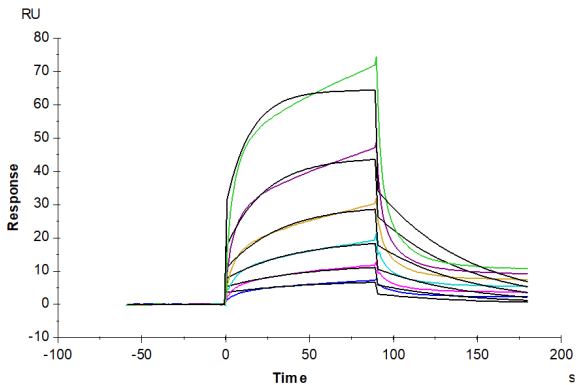
ELISA Data

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).