

Human CEACAM-5/CD66e (145-500) Protein

Cat. No. CAM-HM1D5

Description

Source	Recombinant Human CEACAM-5/CD66e (145-500) Protein is expressed from HEK293 with His tag at the C-terminus. It contains Pro145-Leu500.
Accession	P06731-1
Molecular Weight	The protein has a predicted MW of 40.54 kDa. Due to glycosylation, the protein migrates to 90-130 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 90% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22 µm 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 5 (CEACAM5) was identified as a metastatic driver. CEACAM5 overproduction enriched for an epithelial gene expression pattern and facilitated tumor outgrowth at metastatic sites. Tissues from patients with metastatic breast cancer confirmed elevated levels of CEACAM5 in lung metastases relative to breast tumors, and an inverse correlation between CEACAM5 and the mesenchymal marker vimentin was demonstrated.

Assay Data

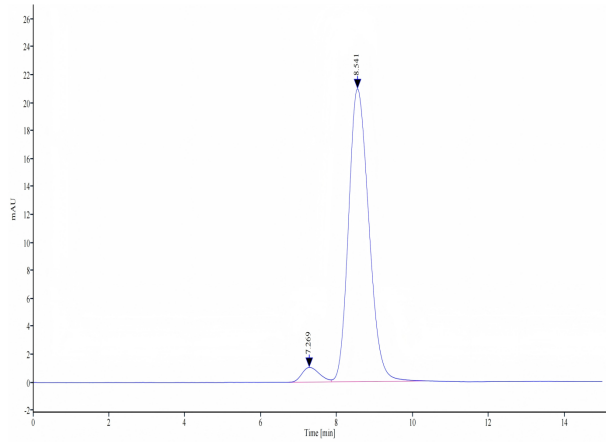
Bis-Tris PAGE



Human CEACAM-5 (145-500) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data



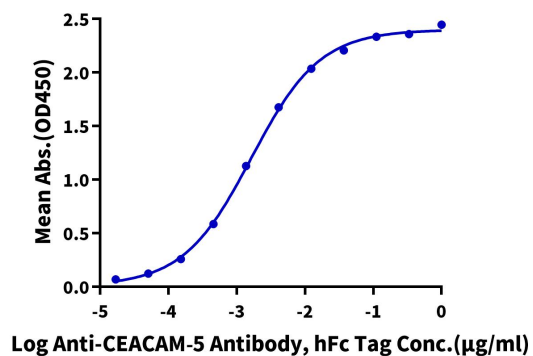
The purity of Human CEACAM-5 (145-500) is greater than 90% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human CEACAM-5 (145-500), His Tag ELISA

0.05µg Human CEACAM-5 (145-500), His Tag Per Well



Immobilized Human CEACAM-5 (145-500), His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-CEACAM-5 Antibody, hFc Tag with the EC50 of 1.6ng/ml determined by ELISA.