Biotinylated Human CEACAM-5/CD66e (499-685) Protein

Cat. No. CAM-HM4D4B

Description

Source	Recombinant Biotinylated Human CEACAM-5/CD66e (499-685) Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus.
	It contains Glu499-Ala685.
Accession	P06731-1
Molecular Weight	The protein has a predicted MW of 22.94 kDa. Due to glycosylation, the protein migrates to 52-65 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

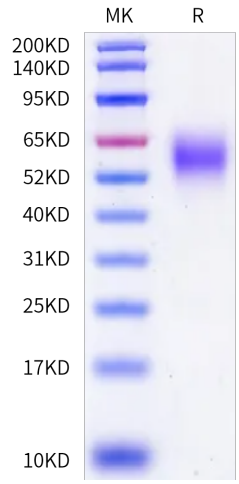
Formulation	Supplied as 0.22 μm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

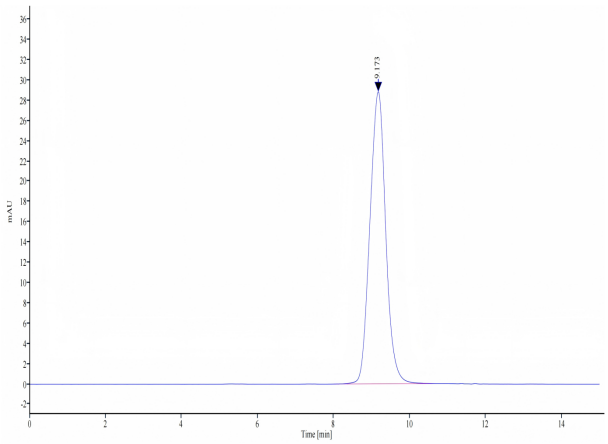
Assay Data

Bis-Tris PAGE



Biotinylated Human CEACAM-5 (499-685) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Biotinylated Human CEACAM-5 (499-685) is greater than 95% as determined by SEC-HPLC.

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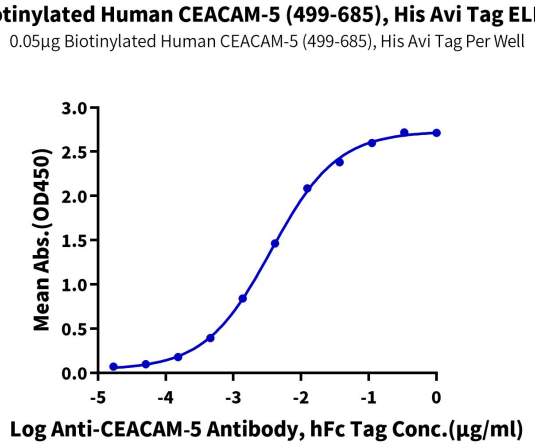
Assay Data

ELISA Data



Immobilized Biotinylated Human CEACAM-5 (499-685), His Avi Tag at 0.5μg/ml (100μl/well) on the streptavidin precoated plate (5μg/ml). Dose response curve for Anti-CEACAM-5 Antibody, hFc Tag with the EC50 of 3.6ng/ml determined by ELISA.