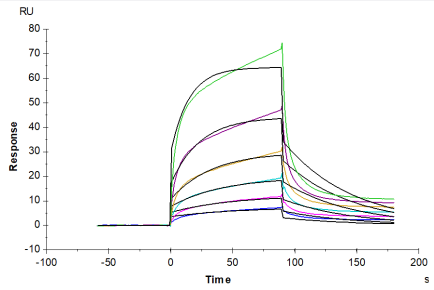
Bioactive CellTx™ HuPro®

CEACAM1 (Human) Recombinant Protein

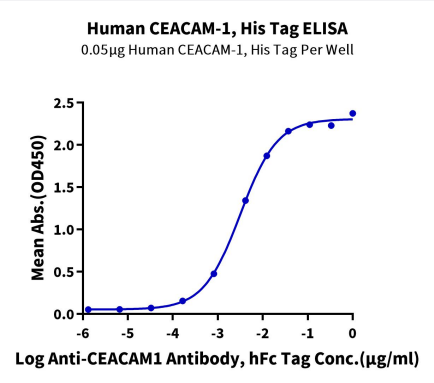
Catalog # P10290 Size 100 ug

Applications



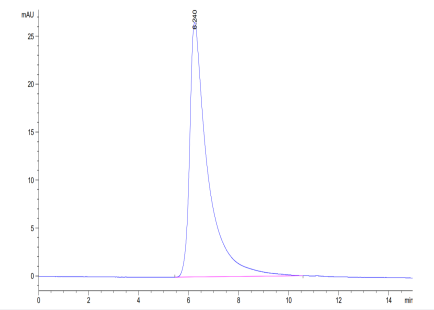
Surface Plasmon Resonance

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



ELISA

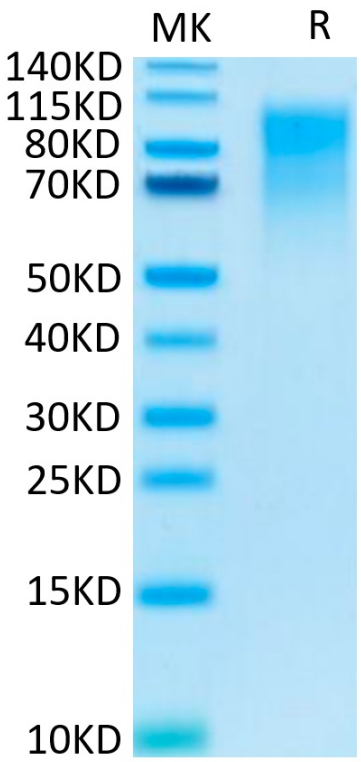
Immobilized Human CEACAM-1 at 0.5 ug/ml (100 ul/Well) on the plate. Dose response curve for Anti-CEACAM-1 Antibody, hFc Tag with the EC_{50} of 3.2 ng/ml determined by ELISA (QC Test).



SEC-HPLC

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

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Tris-Bis PAGE

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

Specification

Product Description	Human CEACAM1 (P13688-1, Gln35-Gly428) partial recombinant protein with His tag at C-terminus expressed in HEK293 cells.
Sequence	Gln35-Gly428
Host	Human
Theoretical MW (kDa)	44.4
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE;> 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Quality Control Testing	ELISA and SEC-HPLC ELISA Immobilized Human CEACAM-1 at 0.5 ug/ml (100 ul/Well) on the plate. Dose response curve for Anti -CEACAM-1 Antibody, hFc Tag with the EC_{50} of 3.2 ng/ml determined by ELISA (QC Test). SEC-HPLC The purity of Human CEACAM-1 is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human CEACAM-1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

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Recommend Usage	Biological Activity ELISA SEC-HPLC SPR Tris-Bis PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from filtered solution in PBS, pH 7.4 (5% trehalose).
Storage Instruction	After reconstitution with deionized water to a final concentration more than 100 ug/ml, store at 4°C for 1 week. For long term storage, store at -80°C for 1 year. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay
- Surface Plasmon Resonance

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

Gene Info — CEACAM1

Entrez GeneID	634
Protein Accession#	P13688-1
Gene Name	CEACAM1
Gene Alias	BGP, BGP1, BGPI
Gene Description	carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)
Omim ID	109770
Gene Ontology	Hyperlink

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Gene Summary	This gene encodes a member of the carcinoembryonic antigen (CEA) gene family, which belongs to the immunoglobulin superfamily. Two subgroups of the CEA family, the CEA cell adhesion molecules and the pregnancy-specific glycoproteins, are located within a 1.2 Mb cluster on the long arm of chromosome 19. Eleven pseudogenes of the CEA cell adhesion molecule subgroup are also found in the cluster. The encoded protein was originally described in bile ducts of liver as biliary glycoprotein. Subsequently, it was found to be a cell-cell adhesion molecule detected on leukocytes, epithelia, and endothelia. The encoded protein mediates cell adhesion via homophilic as well as heterophilic binding to other proteins of the subgroup. Multiple cellular activities have been attributed to the encoded protein, including roles in the differentiation and arrangement of tissue three-dimensional structure, angiogenesis, apoptosis, tumor suppression, metastasis, and the modulation of innate and adaptive immune responses. Multiple transcript variants encoding different isoforms have been reported, but the full-length nature of only two has been determined. [provided by RefSeq
Other Designations	CD66a antigen|antigen CD66|biliary glycoprotein adhesion molecule|carcinoembryonic antigen-related cell adhesion molecule 1

Disease

- Body Weight
- Diabetes Mellitus
- Genetic Predisposition to Disease
- Meningococcal Infections
- Metabolic Syndrome X
- Osteoporosis

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