

CEACAM6 active protein

CEACAM6 Protein, Human, Recombinant (His Tag)

CATALOG #
AAA257932

HOST
HEK293 Cells

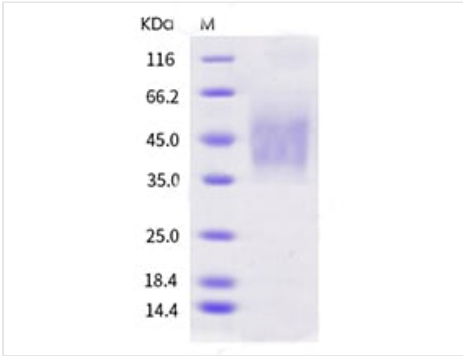
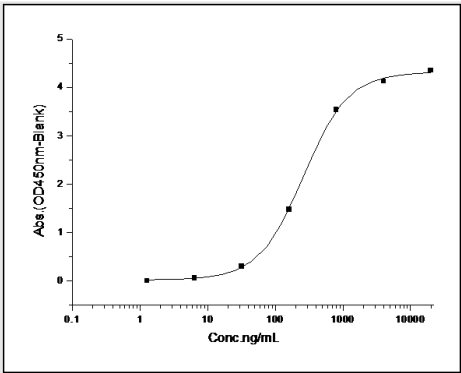
PRODUCT SYNONYMS

CEACAM6; CEACAM6 Protein; Human; Recombinant (His Tag); Human CEACAM6/CD66c Protein (His Tag); CD66c Protein; CEA Protein; CEAL Protein; NCA Protein; carcinoembryonic antigen-related cell adhesion molecule 6 (non-specific cross reacting antigen); CEACAM6 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. 5% trehalose, 5% mannitol
Sequence	Met1-Gly320
Source	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Lys 35
Tag	His Tag
Protein Construction	A DNA sequence encoding the human CEACAM6 (NP_002474.4)(Met1-Gly320) with a C-terminal polyhistidine tag was expressed.
Reconstitution	It is recommended that sterile water (400ul) be added to the vial to prepare a stock solution of 0.25mg/mL. Concentration is measured by UV.
Activity	1. Measured by its binding ability in a functional ELISA. 2. Immobilized human CEACAM6-his at 10ug/mL (100uL/well) can bind biotinylated human CEACAM8-his. The EC50 of biotinylated human CEACAM8-his is 0.17ug/mL.
Molecular Mass	The secreted recombinant human CEACAM6 comprises 297 amino acids with a predicted molecular mass of 32.6 kDa. As a result of glycosylation, rhCEACAM6 migrates as an approximately 44-55 kDa band in SDS-PAGE under reducing conditions.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

IMAGES



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized human CEACAM6-his at 10 ug/mL (100 ul/well) can bind biotinylated human CEACAM8-his, The EC50 of biotinylated human CEACAM8-his is 0.17 ug/mL.

ADDITIONAL INFORMATION

Related Product Information for CEACAM6 active protein	Background: Carcinoembryonic antigen-related cell adhesion molecule 6 (CEACAM6), also known as nonspecific crossreacting antigen (NCA) and CD66c, is one of seven human CEACAM family members within the immunoglobulin superfamily. It s a glycosylphosphatidylinositol-linked immunoglobulin superfamily member that is overexpressed in a variety of human cancers, including colon, breast and lung and is associated with tumourigenesis, tumour cell adhesion, invasion and metastasis. CEACAM6 is a unique mediator of migration and invasion of drug resistant oestrogen-deprived breast cancer cells, and this protein could be an important biomarker of metastasis. CEACAM6 is expressed by granulocytes and their progenitors. It is also expressed by epithelia of various organs and is upregulated in pancreatic and colon adenocarcinomas, as well as hyperplastic polyps. Resistance to adhesion-related apoptosis in tumor cells is conferred in the condition of CEACAM6 overexpression.
References	Duxbury MS, et al. (2004) Overexpression of CEACAM6 promotes insulin-like growth factor I-induced pancreatic adenocarcinoma cellular invasiveness. Oncogene. 23(34): 5834-42.Lewis-Wambi JS, et al. (2008) Overexpression of CEACAM6 promotes migration and invasion of oestrogen-deprived breast cancer cells. Eur J Cancer. 44(12): 1770-9.

NCBI AND UNIPROT INFORMATION

NCBI GI #	612407822
NCBI GeneID	4680
NCBI Accession #	NP_002474.4
NCBI GenBank Nucleotide #	NM_002483.6
UniProt Accession #	P40199; Q13774; Q14920; Q53XP7
NCBI Official Full Name	carcinoembryonic antigen-related cell adhesion molecule 6 preproprotein
NCBI Official Synonym Full Names	carcinoembryonic antigen related cell adhesion molecule 6
NCBI Official Symbol	CEACAM6
NCBI Official Synonym Symbols	NCA; CEAL; CD66c
NCBI Protein Information	carcinoembryonic antigen-related cell adhesion molecule 6
UniProt Protein Name	Carcinoembryonic antigen-related cell adhesion molecule 6
UniProt Gene Name	CEACAM6
UniProt Synonym Gene Names	NCA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-active-protein/ceacam6/257932>