

Carcinoembryonic antigen-related cell adhesion molecule 5 (CEACAM5)(E398K) Active Protein | CEACAM5 active protein

Recombinant Human Carcinoembryonic antigen-related cell adhesion molecule 5 (CEACAM5)(E398K)(Active)

CATALOG # AAA279202	HOST Mammalian cell
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PRODUCT SYNONYMS

Carcinoembryonic antigen-related cell adhesion molecule 5 (CEACAM5)(E398K); Recombinant Human Carcinoembryonic antigen-related cell adhesion molecule 5 (CEACAM5)(E398K)(Active); Carcinoembryonic antigen; CEA; Meconium antigen 100; CD antigen CD66e; CEACAM5 active protein

PRODUCT SPECIFICATIONS

Host	Mammalian cell
Purity/Purification	Greater than 95% as determined by SDS-PAGE.
Form/Format	Lyophilized powder Lyophilized from a 0.2 um filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
Sequence Positions	35-685aa (E398K); Full Length of Mature Protein
Sequence	KLTIESTPFN VAEGKEVLLL VHNLPQHFLG YSWYKGERVD GNRQIIGYVI GTQQATPGPA YSGREIIYPN ASLLIQNIIQ NDTGFYTLHV IKSDLVNEEA TGQFRVYPEL PKPSSISNNS KPVEDKDAVA FTCEPETQDA TYLWWVNNQS LPVSPRLQLS NGNRTLTLFN VTRNDTASYK CETQNPVSAR RSDSVILNVL YGPDAPTISP LNTSYRSGEN LNLSCHAAASN PPAQYSWVFN GTFQQSTQEL FIPNITVNNS GSYTCQAHNS DTGLNRTTVT TITVYAEPK PFITSNNSNP VEDEDAVALT CEPEIQNTTY LWWVNNQSLP VSPRLQLSND NRTLTLTLLSVT RNDVGPYECG IQNKLSVDHS DPVILNVLYG PDDPTISPSY TYRPGVNLS LSCHAAASNPP AQYSWLIDGN IQQHTQELFI SNITEKNSGL YTCQANNSAS GHSRTTVKTI TVSAELPKPS ISSNNSKPVE DKDAVAFTCE PEAQNTTYLW WVNGQSLPVS PRLQLSNGNR TLTLFNVTRN DARAYVCGIQ NSVSANRSDP VTLDVLYGPD TPIISPPDSS YLSGANLNLS CHSASNPSQ YSWRINGIPQ QHTQVLFIK ITPNNNGTYA CFVSNLATGR NNSIVKSITV SASGTSPGLS A\$
Species	Homo sapiens (Human)
Tag	C-terminal 10xHis-tagged
Endotoxin	Less than 1.0 EU/ug as determined by LAL method.
Research Area	Cancer
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human CEACAM5 at 2ug/mL can bind Anti-CEACAM5 recombinant antibody, the EC50 is 0.8955-1.719 ng/mL.
Preparation and Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

IMAGES



Bioactivity

Measured by its binding ability in a functional ELISA. Immobilized Human CEACAM5 at 2?g/mL can bind Anti-CEACAM5 recombinant antibody, the EC50 is 0.8955-1.719 ng/mL.



SDS-PAGE

Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

ADDITIONAL INFORMATION

Related Product Information for CEACAM5 active protein	Cell surface glycoprotein that plays a role in cell adhesion, intracellular signaling and tumor progression (PubMed:2803308, PubMed:10910050, PubMed:10864933).Mediates homophilic and heterophilic cell adhesion with other carcinoembryonic antigen-related cell adhesion molecules, such as CEACAM6.Plays a role as an oncogene by promoting tumor progression; induces resistance to anoikis of colorectal carcinoma cells
Product Categories/Family for CEACAM5 active protein	Active Protein & In Stock Protein
References	Cell surface glycoprotein that plays a role in cell adhesion, intracellular signaling and tumor progression. Mediates homophilic and heterophilic cell adhesion with other carcinoembryonic antigen-related cell adhesion molecules, such as CEACAM6. Plays a role as an oncogene by promoting tumor progression; induces resistance to anoikis of colorectal carcinoma cells.; (Microbial infection) Receptor for E coli Dr adhesins. Binding of E coli Dr adhesins leads to dissociation of the homodimer.

NCBI AND UNIPROT INFORMATION

NCBI GI #	317373456
NCBI GeneID	1048
UniProt Accession #	P06731; H9KVA7
Molecular Weight	76,795 Da
NCBI Official Full Name	Carcinoembryonic antigen-related cell adhesion molecule 5
NCBI Official Synonym Full Names	carcinoembryonic antigen-related cell adhesion molecule 5
NCBI Official Symbol	CEACAM5
NCBI Official Synonym Symbols	CEA; CD66e
NCBI Protein Information	carcinoembryonic antigen-related cell adhesion molecule 5; meconium antigen 100
UniProt Protein Name	Carcinoembryonic antigen-related cell adhesion molecule 5
UniProt Gene Name	CEACAM5
UniProt Synonym Gene Names	CEA; CEA
UniProt Entry Name	CEAM5_HUMAN

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.