

Carcinoembryonic antigen-related cell adhesion molecule 5 Recombinant Protein | CEACAM5 recombinant protein

Recombinant Human Carcinoembryonic antigen-related cell adhesion molecule 5

CATALOG #
AAA113225

PRODUCT SYNONYMS

Carcinoembryonic antigen-related cell adhesion molecule 5; Recombinant Human Carcinoembryonic antigen-related cell adhesion molecule 5; Carcinoembryonic antigen; CEA; Meconium antigen 100; CD66e; CEACAM5 recombinant protein

PRODUCT SPECIFICATIONS

Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Form/Format	Liquid containing glycerol
Sequence Positions	35-685; Mature full length protein
Sequence	KLTIESTPFN VAEGKEVLLL VHNLPQHLLG YSWYKGERVD GNRQIIGYVI GTQQATPGPA YSGREIIYPN ASLLIQNIIQ NDTGFYTLHV IKSDLVNEEA TGQFRVYPEL PKPSSSNNNS KPVEDKDAVA FTCEPETQDA TYLWWVNNQS LPVSPRLQLS NGNRTLTLFN VTRNDTASYK CETQNPVSAR RSDSVILNVL YGPDAPTISP LNTSYRSGEN LNLSCHAASN PPAQYSWFVN GTFQQSTQEL FIPNITVNNNS GSYTCQAHNS DTGLNRTT VT TITVYAEPK PFITSNNSNP VEDEDAVALT CEPEIQNTTY LWWVNNQSLP VSPRLQLSND NRTLTLSSVT RNDVGPEYECG IQNKLSVDHS DPVILNVLYG PDDPTISPSY TYRPGVNLS LSCHAASNPP AQYSWLIDGN IQHTQELFI SNITEKNSGL YTCQANNSAS GHSRTTVKTI TVSAELPKPS ISSNNSKPVE DKDAVAFTCE PEAQNTTYLW WVNGQSLPVS PRLQLSNGNR TLTLFNVTRN DARAYVCGIQ NSVSANRSDP VTLDVLYGPD TPIISPPDSS YLSGANLNLN CHSASNPSPQ YSWRINGIPQ QHTQVLFIAK ITPNNNGTYA CFVSNLATGR NNSIVKSITV SASGTSPGLS A
Sequence Length	685
Product Note	Applications are user defined. Product is developed and quality control tested in house, data or additional information may be provided upon request. The researcher needs to establish and confirm the suitability of the product for their application.
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for CEACAM5 recombinant protein	Cell surface glycoprotein that plays a role in cell adhesion and in intracellular signaling. Receptor for E Coli Dr adhesins.
Product Categories/Family for CEACAM5 recombinant protein	Tags & Cell Markers; Raw Materials Assay Development
References	Isolation and characterization of full-length functional cDNA clones for human carcinoembryonic antigen.Beauchemin N., Benchimol S., Cournoyer D., Fuks A., Stanners C.P.Mol. Cell. Biol. 7:3221-3230(1987) Carcinoembryonic antigen family characterization of cDNAs coding for NCA and CEA and suggestion of nonrandom sequence variation in their conserved loop-domains.Barnett T., Goebel S.J., Nothdurft M.A., Elting J.J.Genomics 3:59-66(1988) Cloning of the complete gene for carcinoembryonic antigen analysis of its promoter indicates a region conveying cell type-specific expression.Schrewe H., Thompson J., Bona M., Hefta L.J.F., Maruya A., Hassauer M., Shively J.E., von Kleist S., Zimmermann W.Mol. Cell. Biol. 10:2738-2748(1990) The DNA sequence and biology of human chromosome 19.Grimwood J., Gordon L.A., Olsen A.S., Terry A., Schmutz J., Lamerdin J.E., Hellsten U., Goodstein D., Couronne O., Tran-Gyamfi M., Aerts A., Altherr M., Ashworth L., Bajorek E., Black S., Branscomb E., Caenepeel S., Carrano A.V., Caoile C., Chan Y.M., Christensen M., Cleland C.A., Copeland A., Dalin E., Dehal P., Denys M., Detter J.C., Escobar J., Flowers D., Fotopulos D., Garcia C., Georgescu A.M., Glavina T., Gomez M., Gonzales E., Groza M., Hammon N., Hawkins T., Haydu L., Ho I., Huang W., Israni S., Jett J., Kadner K., Kimball H., Kobayashi A., Larionov V., Leem S.-H., Lopez F., Lou Y., Lowry S., Malfatti S., Martinez D., McCready P.M., Medina C., Morgan J., Nelson K., Nolan M., Ovcharenko I., Pitluck S., Pollard M., Popkie A.P., Predki P., Quan G., Ramirez L., Rash S., Retterer J., Rodriguez A., Rogers S., Salamov A., Salazar A., She X., Smith D., Slezak T., Solovyev V., Thayer N., Tice H., Tsai M., Ustaszewska A., Vo N., Wagner M., Wheeler J., Wu K., Xie G., Yang J., Dubchak I., Furey T.S., DeJong P., Dickson M., Gordon D., Eichler E.E., Pennacchio L.A., Richardson P., Stubbs L., Rokhsar D.S., Myers R.M., Rubin E.M., Lucas S.M.Nature 428:529-535(2004) Primary structure of human carcinoembryonic antigen (CEA) deduced from cDNA sequence.Oikawa S., Nakazato H., Kosaki G.Biochem. Biophys. Res. Commun. 142:511-518(1987) Isolation and characterization of cDNA clones encoding the human carcinoembryonic antigen reveal a highly conserved repeating structure.Zimmermann W., Ortlieb B., Friedrich R., von Kleist S.Proc. Natl. Acad. Sci. U.S.A. 84:2960-2964(1987) Self recognition in the Ig superfamily. Identification of precise subdomains in carcinoembryonic antigen required for intercellular adhesion.Taheri M., Saragovi U., Fuks A., Makkerh J., Mort J., Stanners C.P.J. Biol. Chem. 275:26935-26943(2000) Identification of N-linked glycoproteins in human saliva by glycoprotein capture and mass spectrometry.Ramachandran P., Boontheung P., Xie Y., Sondej M., Wong D.T., Loo J.A.J. Proteome Res. 5:1493-1503(2006) Glycoproteomics analysis of human liver tissue by combination of multiple enzyme digestion and hydrazide chemistry.Chen R., Jiang X., Sun D., Han G., Wang F., Ye M., Wang L., Zou H.J. Proteome Res. 8:651-661(2009) Structural models for carcinoembryonic antigen and its complex with the single-chain Fv antibody molecule MFE23.Boehm M.K., Perkins S.J.FEBS Lett. 475:11-16(2000) Binding of Dr adhesins of Escherichia coli to carcinoembryonic antigen triggers receptor dissociation.Korotkova N., Yang Y., Le Trong I., Cota E., Demeler B., Marchant J., Thomas W.E., Stenkamp R.E., Moseley S.L., Matthews S.Mol. Microbiol. 67:420-434(2008)

NCBI AND UNIPROT INFORMATION

NCBI GI #	612407802
NCBI GeneID	1048
NCBI Accession #	NP_001278413.1
NCBI GenBank Nucleotide #	NM_001291484.2
UniProt Accession #	P06731; H9KVA7
Molecular Weight	73.33kD
NCBI Official Full Name	carcinoembryonic antigen-related cell adhesion molecule 5 isoform 1 preproprotein
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
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.

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