CEACAM5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CEACAM5, Polyclonal Antibody
Full Product Name	Anti-CEACAM5 Antibody, Rabbit Polyclonal
Product Gene Name	anti-CEACAM5 antibody
Product Synonym Names	CEACAM5/CD66e Antibody, Rabbit PAb; carcinoembryonic antigen-related cell adhesion molecule 5; Anti-CD66e Antibody; Anti-CEA Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A
Specificity	Human CEACAM5/CD66e
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	77kDa
Chromosome Location	Chromosome: 19; NC_000019.9 (42212530..42234437). Location: 19q13.1-q13.2
OMIM	114890
3D Structure	ModBase 3D Structure for P06731
Immunogen	Recombinant Human CD66e protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human CEACAM5 (rh CEACAM5). Total IgG was purified by Protein A affinity chromatography.
Product Categories/Family for anti-CEACAM5 antibody	Cancer Drug Targets
Applications Tested/Suitable for anti-CEACAM5 antibody	ELISA (EIA)
Application Notes for anti-CEACAM5 antibody	ELISA: 1:1000-1:2000

Related Product Information for anti-CEACAM5 antibody	CEACAM5, also known as CEA or D66e, belongs to the large CEACAM subfamily of the immunoglobulin superfamily. CEACAM5 is expressed primarily by epithelial cells, and is synthesized as a glycoprotein with an MW of 180 kDa comprising 60% carbohydrate. CEACAM5 contains one Ig-like V-type domain at the N-terminus, followed by six Ig-like C2-type domains and a GPI anchor, and exists as a homodimer. CEACAM5 and CEACAM6 are overexpressed in many cancers and are associated with adhesion and invasion. CEACAM5 can mediate cell-cell adhesion through homotypic and heterotypic interactions. It functions as a homotypic intercellular adhesion molecule and serves as a widely used tumor marker, since it is expressed at higher levels in tumorous tissues than in corresponding normal tissues. CEACAM5 has also been shown to contribute to tumorigenicity by inhibiting cellular differentiation. In addition, CEACAM5 is identified as the host receptor for the Dr family of adhesins of E Coli, and the binding of E Coli Dr adhesins leads to dissociation of the CEACAM5 homodimer.
Product References and Citations for anti-CEACAM5 antibody	Baczyska D, et al. (2003) The tumorigenic potential of human CX-1 colon adenocarcinoma cells depends on carcinoembryonic antigen (CEACAM5) expression. Cell Mol Biol Lett. 8(2): 471-86. Blumenthal RD, et al. (2005) Inhibition of adhesion, invasion, and metastasis by antibodies targeting CEACAM6 (NCA-90) and CEACAM5 (Carcinoembryonic Antigen). Cancer Res. 65(19): 8809-17. Liebig B, et al. (2005) Forced expression of deltaN-TCF-1B in colon cancer derived cell lines is accompanied by the induction of CEACAM5/6 and mesothelin. Cancer Lett. 223(1): 159-67.
Other Notes	Small volumes of anti-CEACAM5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CEACAM5 purchase	MBS8104815 is an antibody targeting CEACAM5. Also known as Anti-CEACAM5 Antibody, Rabbit Polyclonal. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CEACAM5. It may not necessarily be applicable to this product.

NCBI GI #	98986445
NCBI GeneID	1048
NCBI Accession #	NP_004354.2
UniProt Primary Accession #	P06731
UniProt Related Accession #	P06731
GenBank Nucleotide #	NM_004363.2
NCBI Official Full Name	carcinoembryonic antigen-related cell adhesion molecule 5 preproprotein
NCBI Official Synonym Full Names	carcinoembryonic antigen-related cell adhesion molecule 5
NCBI Official Symbol	CEACAM5
NCBI Official Synonym Symbols	CEA; CD66e
UniProt Protein Name	Carcinoembryonic antigen-related cell adhesion molecule 5
UniProt Synonym Protein Names	Carcinoembryonic antigen; CEA; Meconium antigen 100
Protein Family	Carcinoembryonic antigen-related cell adhesion molecule
UniProt Gene Name	CEACAM5
UniProt Synonym Gene Names	CEA; CEA
UniProt Entry Name	CEAM5_HUMAN
NCBI Protein Information	carcinoembryonic antigen-related cell adhesion molecule 5; meconium antigen 100

UniProt Comments for CEACAM5	CEACAM5: Cell surface glycoprotein that plays a role in cell adhesion and in intracellular signaling. Receptor for E.coli Dr adhesins. Homodimer. Binding of E.coli Dr adhesins leads to dissociation of the homodimer. Found in adenocarcinomas of endodermally derived digestive system epithelium and fetal colon. Belongs to the immunoglobulin superfamily. CEA family. Protein type: Membrane protein, integral; Immunoglobulin superfamily; Membrane protein, GPI anchor Chromosomal Location of Human Ortholog: 19q13.1-q13.2 Cellular Component: basolateral plasma membrane; integral to plasma membrane Molecular Function: identical protein binding; protein homodimerization activity Biological Process: homotypic cell-cell adhesion; negative regulation of apoptosis
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