

Mouse anti-Human CEACAM5 Monoclonal Antibody | anti-CEACAM5 antibody

anti-human CEACAM5 monoclonal antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71463	Mouse	Human	Western Blot, ELISA, ELISA, Flow Cytometry, Functional Assay

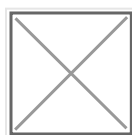
PRODUCT SYNONYMS

CEACAM5; Monoclonal Antibody; anti-human CEACAM5 monoclonal antibody; CD66e; CEA; anti-CEACAM5 antibody

PRODUCT SPECIFICATIONS

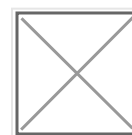
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1/kappa
Clone Number	26/3/13
Specificity	anti-human CEACAM5 (CEA; CD66e)
Purity/Purification	Protein G
Form/Format	Phosphate buffered saline, pH 7.2
Sequence Length	702
Applicable Applications for anti-CEACAM5 antibody	WB (Western Blot), ELISA, ELISA (Competitive ELISA), FCM/FACS (Flow Cytometry)
Immunogen	Immunisation with extracted protein of CEACAM5
Selection	based on recognition of the complete native protein expressed on transfected mammalian cells
Preparation and Storage	Short term: 2°C - 8°C; long term: -20°C (avoid repeated freezing and thawing)

IMAGES



Application Data

Fig. 2: Specificity testing of 26/3/13. BOSC23 cells were transiently transfected with expression vectors containing either the cDNA of CEACAM1, CEACAM5-8. Recognition of CEACAM3, 4 and of a recombinant transmembrane-anchored PSG1 fusion protein was tested on stably transfected HeLa (CEACAM3, PSG) and CHO cells (CEACAM4), respectively. Expression of the constructs was confirmed with monoclonal antibodies known to recognize the corresponding proteins (CEACAM1, 3, 4, 5 and 6: D14HD11; CEACAM7: CAC2; CEACAM8: TET2; PSG: BAP1; green curves). An irrelevant monoclonal antibody served as a negative control (black curves). For specificity testing, protein G purified 26/3/13 was tested on all CEACAM transfectants. A positive signal was only obtained with CEACAM5 expressing cells (red curves).



Application Data

Fig.1: FC analysis of BOSC23 cells using 26/3/13 Cat.# AAA71463. BOSC23 cells were transiently transfected with an expression vector encoding either CEACAM5 (red curve) or an irrelevant protein (control transfectant). Binding of 26/3/13 was detected with a PE-conjugated secondary antibody. A positive signal was obtained only with CEACAM5 transfected cells.

ADDITIONAL INFORMATION

Related Product Information for anti-CEACAM5 antibody	<p>Description</p> <p>Purified monoclonal mouse antibody</p> <p>Background</p> <p>CEACAM5(CEA-related cell adhesion molecule 5, CEA) belongs to the carcinoembryonic antigen (CEA) gene family (1,2). It encodes a glycosyl phosphatidylinositol (GPI)-linked glycoprotein with a Mrof 180,000-200,000 which is most strongly expressed on epithelial cells of the fetal and adult colon and to a minor extent on epithelial cells of the stomach and sweat glands, squamous epithelial cell of the tongue, esophagus and cervix. CEACAM5 is used as a tumor marker for early detection of recurrent disease due to its expression in adenocarcinomas of the colon, lung, breast, stomach and pancreas and in mucinous ovarian carcinomas (3). Like all members of the CEACAM family, it consists of a single N domain, with structural homology to the immunoglobulin variable domains, followed by six immunoglobulin constant-like A (A1, A2, A3) and B domains (B1, B2, B3).</p>
References	<p>Zimmermann W (2002). Carcinoembryonic antigen. In Wiley Encyclopedia of Molecular Medicine (T. Creighton, ed.), John Wiley & Sons Inc., New York, USA, pp. 459-462.</p> <p>Hammarström S (1999). The carcinoembryonic antigen (CEA) family: structures, suggested functions and expression in normal and malignant tissues. Semin. Cancer Biol. 9, 67-81.</p> <p>Grunert F, Stocks SC, Nagel G., Zimmermann W, Thompson JA, Jantscheff P and Kromer B. (1996). CD66 family Workshop: Binding of myeloid blind panel antibodies and CD66 Subsection antibodies to HeLa transfectants expressing individual CD66 molecules. In Leukocyte Typing VI: White cell Differentiation Antigens (T. Kishimoto et al., eds.), Garland Publishing Inc., New York and London, pp. 1012-1025.</p>

NCBI AND UNIPROT INFORMATION

NCBI GI #	612407802
NCBI GeneID	1048
NCBI Accession #	NP_001278413.1
NCBI GenBank Nucleotide #	NM_001291484.1
UniProt Accession #	P06731; H9KVA7
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
NCBI Protein Information	carcinoembryonic antigen-related cell adhesion molecule 5; meconium antigen 100
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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Online datasheet: <https://stage.aaabiotech.com/monoclonal/ceacam5-antibody-clone-26-3-13-western-blot-competitive-elisa-flow-cytometry-elisa/71463>