

Mouse anti-Human CEACAM16 Monoclonal Antibody | anti-CEACAM16 antibody

anti-human CEACAM16 monoclonal antibody

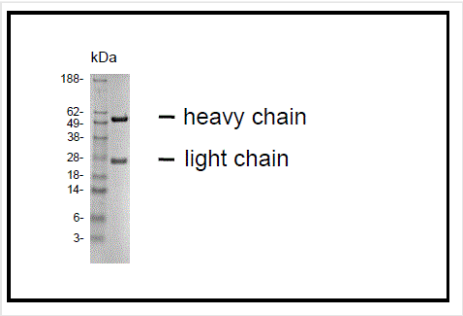
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71480	Mouse	Human	Immunohistochemistry, ELISA, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CEACAM16; Monoclonal Antibody; anti-human CEACAM16 monoclonal antibody; anti-CEACAM16 antibody

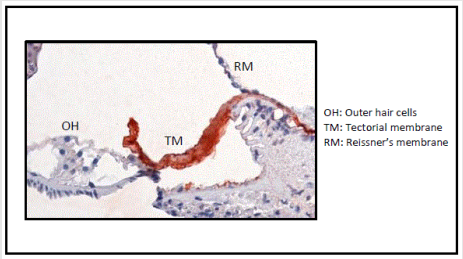
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	SU-9D5
Specificity	anti-human CEACAM16
Purity/Purification	Protein G
Form/Format	Purified
Sequence Length	425
Applicable Applications for anti-CEACAM16 antibody	IHC (Immunohistochemistry), ELISA (Competitive ELISA), FCM/FACS (Flow Cytometry)
Buffer	phosphate buffered saline, pH 7.2
Immunogen	genetic immunisation with cDNA encoding human CEACAM16
Selection	based on recognition of the complete native protein expressed on transfected mammalian cells
Immunogen	cDNA
Preparation and Storage	Short term: 2 degree C - 8 degree C; long term: -20 degree C (avoid repeated freezing and thawing)



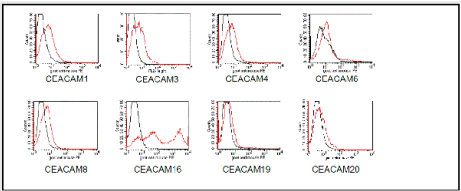
Application Data

SDS-PAGE analysis of SU-9D5 The antibody was purified by protein G affinity chromatography from cell culture supernatants and verified by SDS-Page (Fig.4). Fig.4: SDS-PAGE analysis of purified SU-9D5 monoclonal antibody. Lane 1: molecular weight marker, Lane 2: 2 µg of purified SU-9D5 antibody. Proteins were separated by SDS-PAGE and stained with RAPID Stain™ Reagent.



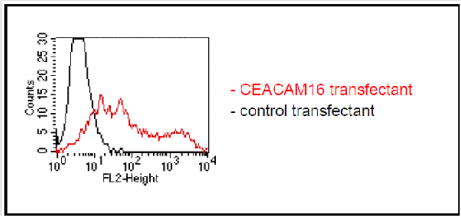
Application Data

Fig.2: Immunohistological staining using SU-9D5 Cat.# GM-0518 on paraffin sections of cochlea tissue of an adult transgenic mouse with a human CEACAM16 gene (Ceacam16+/+ mouse cochlea). Binding of biotinylated SU-9D5 was detected with horseradish peroxidase-coupled streptavidin and stained with 3-amino-9-ethylcarbazole. Constanze Schäuble, Tumor Immunology Laboratory, LMU, Munich



Application Data

Fig.3: BOSC23 cells were transiently transfected with expression vectors containing either the cDNA of CEACAM1, CEACAM3, 4, 6, 8, 19, or 20. Expression of the constructs was tested with monoclonal antibodies known to recognize the corresponding proteins (data not shown). An irrelevant monoclonal antibody served as a negative control (black curves). For specificity testing, protein G-purified SU-9D5 was tested on all CEACAM transfectants. A positive signal was obtained only with CEACAM16 transfected cells (red curve).



Application Data

Fig.1: FACS analysis of BOSC23 cells using SU-9D5 Cat.# GM-0518. BOSC23 cells were transiently transfected with an expression vector encoding either CEACAM16 (red curve) or an irrelevant protein (control transfectant). Binding of SU-9D5 was detected with a PE-conjugated secondary antibody. A positive signal was obtained only with CEACAM16 transfected cells.

ADDITIONAL INFORMATION

Related Product Information for anti-CEACAM16 antibody	Background: CEA-related cell adhesion molecule 16 (CEACAM16) belongs to the carcinoembryonic antigen (CEA) gene family which are widely expressed (1). The mammal-specific member CEACAM16 is well conserved and specifically expressed in the inner ear (2). It is a structural component of the tectorial membrane and the expression is necessary for hearing over an extended frequency range (3).
References	Hammarström S (1999). The carcinoembryonic antigen (CEA) family: structures, suggested functions and expression in normal and malignant tissues. Semin. Cancer Biol. 9, pp. 67-81. Zimmermann W (2002). Carcinoembryonic antigen. In Wiley Encyclopedia of Molecular Medicine (T. Creighton, ed.), John Wiley & Sons Inc., New York, USA, pp. 459-462. Kammerer R, Rüttiger L, Riesenberger R, Schäuble C, Krupar R, Kamp A, Sunami K, Eisenried A, Hennenberg M, Grunert F, Bress A, Battaglia S, Schrewe H, Knipper M, Schneider MR, Zimmermann W (2012). Loss of mammalspecific tectorial membrane component carcinoembryonic antigen cell adhesion molecule 16 (CEACAM16) leads to hearing impairment at low and high frequencies. Journal of biologiacay chemistry 287,26, pp. 21584-21598

NCBI AND UNIPROT INFORMATION

NCBI GI #	291190766
NCBI GeneID	388551
NCBI Accession #	NP_001034302.2
NCBI GenBank Nucleotide #	NM_001039213.3
UniProt Accession #	Q2WEN9; A7L12
Molecular Weight	45,873 Da

NCBI Official Full Name	carcinoembryonic antigen-related cell adhesion molecule 16
NCBI Official Synonym Full Names	carcinoembryonic antigen-related cell adhesion molecule 16
NCBI Official Symbol	CEACAM16
NCBI Official Synonym Symbols	CEAL2; DFNA4B
NCBI Protein Information	carcinoembryonic antigen-related cell adhesion molecule 16; carcinoembryonic antigen like-2 protein
UniProt Gene Name	CEACAM16
UniProt Synonym Gene Names	CEAL2
UniProt Entry Name	CEA16_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/ceacam16-antibody-clone-su-9d5-immunohistochemistry-competitive-elisa-flow-cytometry-elisa/71480>