

Mouse anti-Human Carcinoembryonic Antigen (CEA) /CD66 Monoclonal Antibody | anti-CEACAM1 antibody

Carcinoembryonic Antigen (CEA) /CD66 Mouse Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62666	Mouse	Human	Immunohistochemistry, Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay

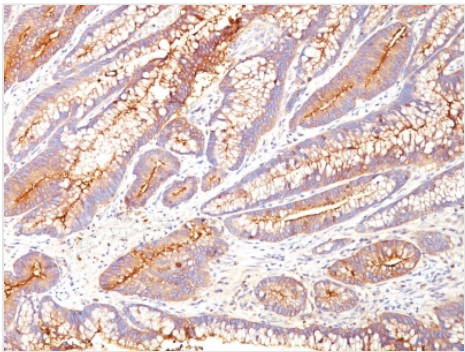
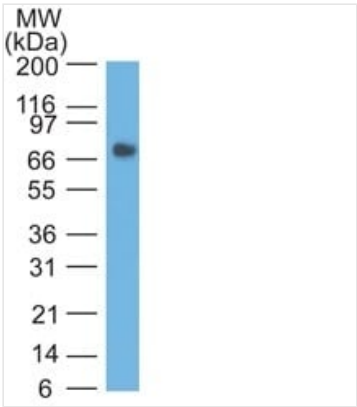
PRODUCT SYNONYMS

Carcinoembryonic Antigen (CEA) /CD66; Monoclonal Antibody; Carcinoembryonic Antigen (CEA) /CD66 Mouse Monoclonal Antibody; Carcinoembryonic Antigen-related Cell Adhesion Molecule 5; CEACAM5; CD66; Biliary Glycoprotein (BGP-1); anti-CEACAM1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a, kappa
Clone Number	COL-1
Specificity	This antibody recognizes proteins of 80-200kDa, identified as different members of CEA family. CEA is synthesized during development in the fetal gut and is re-expressed in increased amounts in intestinal carcinomas and several other tumors. This MAb does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues. CEA is not found in benign glands, stroma, or malignant prostatic cells. Antibody to CEA is useful in detecting early foci of gastric carcinoma and in distinguishing pulmonary adenocarcinomas (60-70% are CEA+) from pleural mesotheliomas (rarely or weakly CEA+). Anti-CEA positivity is seen in adenocarcinomas from the lung, colon, stomach, esophagus, pancreas, gallbladder, urachus, salivary gland, ovary, and endocervix.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	702
Applicable Applications for anti-CEACAM1 antibody	IHC (Immunohistochemistry), WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Cellular Localization	Cytoplasmic and luminal surface
Immunogen	Human colon carcinoma extract
Hu-Chromosome Location	19q13.1-19q13.2
Positive Control	MCF7 or 293T cells. Colon carcinoma
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human colon carcinoma stained with CEA Monoclonal Antibody (COL-1).

WB (Western Blot)
Western Blot of human Stomach Lysate using CEA Monoclonal Antibody (COL-1).

ADDITIONAL INFORMATION

References	Muraro R, et. al. Cancer Research, 1985, 45:5769-80. Siler K, et. al. Biotechnology Therapeutics, 1993, 4(3-4):163-81. Robbins PF, et. al. International Journal of Cancer, 1993, 53(6):892-7. Shi ZR, et. al. Journal of Histochemistry and Cytochemistry, 1994, 42(9):1215-9
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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	80-200kDa
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.