

CEA Antibody

Purified Mouse Monoclonal Antibody Catalog # AO1508a

Product Information

Application WB, ICC, E **Primary Accession** P06731 Reactivity Human Host Mouse Monoclonal Clonality **Clone Names** 3G12 Isotype IgG1 76796 **Calculated MW**

Description Carcino Embryonic Antigen (CEA) is synthesised during development in the

fetal gut, and is re-expressed in increased amounts in intestinal carcinomas and several other tumors. Antibodies to CEA are useful in identifying the origin of various metastatic adenocarcinomas and in distinguishing pulmonary adenocarcinomas (60 to 70% are CEA+) from pleural

mesotheliomas (rarely or weakly CEA+). The carcinoembryonic antigen (CEA) is a member of a large family of glycoproteins and a useful tumor marker for

adenocarcinoma. Tissue specificity: Found in adenocarcinomas of endodermally derived digestive system epithelium and fetal colon.

Immunogen Purified recombinant fragment of human CEA expressed in E. Coli.

Formulation Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID 1048

Other Names Carcinoembryonic antigen-related cell adhesion molecule 5,

Carcinoembryonic antigen, CEA, Meconium antigen 100, CD66e, CEACAM5,

CEA

Dilution WB~~1/500 - 1/2000 ICC~~N/A E~~1/10000

Storage Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions CEA Antibody is for research use only and not for use in diagnostic or

therapeutic procedures.

Protein Information

Name CEACAM5 (HGNC:1817)

Function Cell surface glycoprotein that plays a role in cell adhesion, intracellular

signaling and tumor progression (PubMed: 10864933, PubMed: 10910050, PubMed: 2803308). Mediates homophilic and heterophilic cell adhesion with other carcinoembryonic antigen-related cell adhesion molecules, such as CEACAM6 (PubMed: 2803308). Plays a role as an oncogene by promoting tumor progression; induces resistance to anoikis of colorectal carcinoma cells

(PubMed: 10910050).

Cellular Location Cell membrane; Lipid-anchor, GPI-anchor. Apical cell membrane. Cell surface

Note=Localized to the apical glycocalyx surface

Tissue Location Expressed in columnar epithelial and goblet cells of the colon (at protein

level) (PubMed:10436421). Found in adenocarcinomas of endodermally

derived digestive system epithelium and fetal colon.

References

1. Scand J Clin Lab Invest. 2008;68(8):703-13. 2. Xi Bao Yu Fen Zi Mian Yi Xue Za Zhi. 2008 Apr;24(4):370-2. Chinese.

Images

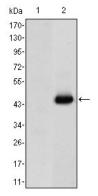


Figure 1: Western blot analysis using CEA mAb against HEK293 (1) and CEA(AA: 460-600)-hIgGFc transfected HEK293 (2) cell lysate.

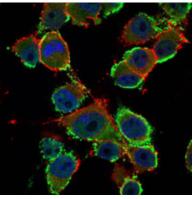


Figure 2: Immunofluorescence analysis of PANC-1 cells using CEA mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.