10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Carcinoembryonic Antigen (CEA) / CD66 Antibody - With BSA and Azide
Mouse Monoclonal Antibody [Clone SPM541]
Catalog # AH10387

Specification

Carcinoembryonic Antigen (CEA) / CD66 Antibody - With BSA and Azide - Product Information

Application	**IHC-P, IF, FC**
Primary Accession	P06731
Other Accession	1048, 634, 709196
Reactivity	**Human, Monkey**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse / IgG1, kappa**
Calculated MW	**80-200kDa KDa**

Carcinoembryonic Antigen (CEA) / CD66 Antibody - With BSA and Azide - Additional Information

Gene ID 1048

Other Names
Carcinoembryonic antigen-related cell adhesion molecule 5, Carcinoembryonic antigen, CEA, Meconium antigen 100, CD66e, CEACAM5, CEA

Application Note
IHC-P~~N/A<br \>IF~~1:50~200<br \>FC~~1:10~50

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.

Storage
Store at 2 to 8°C.Antibody is stable for 24 months.

Precautions
Carcinoembryonic Antigen (CEA) / CD66 Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

Carcinoembryonic Antigen (CEA) / CD66 Antibody - With BSA and Azide - Protein Information

Name CEACAM5 (HGNC:1817)

Function
Cell surface glycoprotein that plays a role in cell adhesion, intracellular signaling and tumor progression (PubMed:<a href="http://www.uniprot.org/citations/10864933"

target="_blank">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

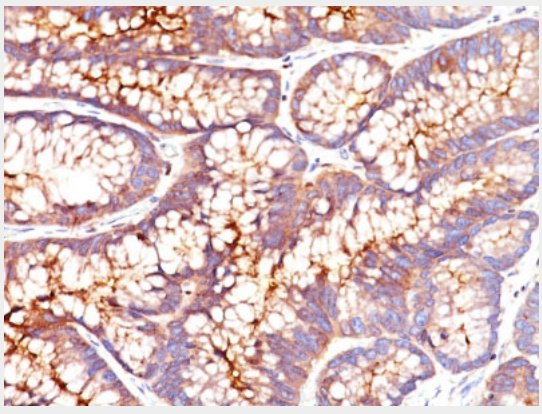
Tissue Location
Expressed in columnar epithelial and goblet cells of the colon (at protein level) (PubMed:10436421). Found in adenocarcinomas of endodermally derived digestive system epithelium and fetal colon.

Carcinoembryonic Antigen (CEA) / CD66 Antibody - With BSA and Azide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Carcinoembryonic Antigen (CEA) / CD66 Antibody - With BSA and Azide - Images



Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with CEA Monoclonal Antibody (SPM541)

Carcinoembryonic Antigen (CEA) / CD66 Antibody - With BSA and Azide - Background

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, gallbadder, urachus, salivary gland, ovary, and endocervix.Ā

Carcinoembryonic Antigen (CEA) / CD66 Antibody - With BSA and Azide - 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