

### **CEA Antibody (Center)**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP6513c

#### **Specification**

### **CEA Antibody (Center) - Product Information**

Application WB, IHC-P-Leica, FC,E

Primary Accession
Reactivity
Human
Host
Clonality
Polyclonal
Isotype
Antigen Region
P06731
Human
Rabbit
Polyclonal
Rabbit IgG
400-429

# **CEA Antibody (Center) - Additional Information**

#### **Gene ID 1048**

#### **Other Names**

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

# **Target/Specificity**

This CEA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 400-429 amino acids from the Central region of human CEA.

#### **Dilution**

WB~~1:1000 IHC-P-Leica~~1:500 FC~~1:10~50

#### **Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

#### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

## **Precautions**

CEA Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

#### **CEA Antibody (Center) - Protein Information**

# Name CEACAM5 (HGNC:1817)

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



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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**

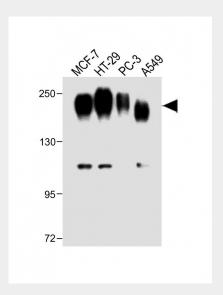
Expressed in columnar epithelial and goblet cells of the colon (at protein level) (PubMed:10436421). Found in adenocarcinomas of endodermally derived digestive system epithelium and fetal colon.

## **CEA Antibody (Center) - Protocols**

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

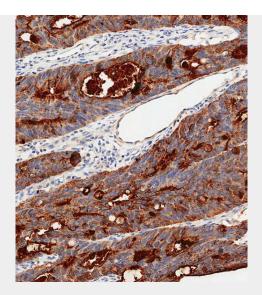
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

## **CEA Antibody (Center) - Images**

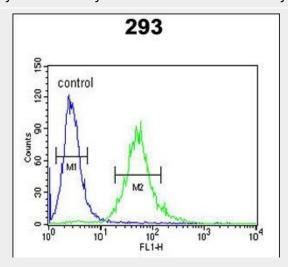


All lanes: Anti-CEA Antibody (Center) at 1:1000 dilution Lane 1: MCF-7 whole cell lysate Lane 2: HT-29 whole cell lysate Lane 3: PC-3 whole cell lysate Lane 4: A549 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size: 77 kDa Blocking/Dilution buffer: 5% NFDM/TBST.





Immunohistochemical analysis of paraffin-embedded Human colon carcinoma tissue using AP6513C performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



CEA Antibody (Center) (Cat. #AP6513c) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## **CEA Antibody (Center) - Background**

CEA is a cell surface glycoprotein that plays a role in cell adhesion and in intracellular signaling. It is a receptor for E.coli Dr adhesins.

# **CEA Antibody (Center) - References**

Lagoudianakis, E.E., J. Surg. Res. 155 (2), 183-190 (2009) Gambichler, T., Am. J. Clin. Pathol. 131 (6), 782-787 (2009)