

## **CD66c Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP58364

### **Specification**

## **CD66c Polyclonal Antibody - Product Information**

Application WB, IHC-P, IHC-F, IF, E

Primary Accession
Host
Clonality
Calculated MW
Physical State
P40199
Rabbit
Polyclonal
31 KDa
Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human CD66c/CEACAM6

Epitope Specificity 165-260/344

Isotype Purity

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Cell membrane; Lipid-anchor, GPI-anchor.

SIMILARITY Belongs to the immunoglobulin

superfamily. CEA family.Contains 2 lg-like C2-type (immunoglobulin-like) domains.

Contains 1 lg-like V-type

(immunoglobulin-like) domain.

SUBUNIT Homodimer. Binding of E.coli Dr adhesins

leads to dissociation of the homodimer.

Complex immunoreactive glycoprotein with

Post-translational modifications Complex immunoreactive glycoprotein with

a MW of 180 kDa comprising 60%

Important Note carbohydrate.
This product a

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

### **Background Descriptions**

affinity purified by Protein A

CEA-related cell adhesion molecules (CEACAM) belong to the carcinoembryonic antigen (CEA) family. It consists of seven CEACAM (CEACAM 1, CEACAM 3-CEACAM 8) and 11 pregnancy-specific glyco-protein (PSG 1-PSG 11) members. The CEA family proteins belong to the immunoglobulin (Ig) superfamily and are composed of one Ig variable-like (IgV) and a varying number (0-6) of Ig constant-like (IgC) domains. CEACAM molecules are membrane-bound either via a transmembrane domain or a glycosyl phosphatidyl inositol (GPI) anchor. CEACAM molecules are differentially expressed in epithelial cells or in leucocytes. Over-expression of CEA/ CEACAM 5 in tumors of epithelial origin is the basis of its wide-spread use as a tumor marker. The function of CEACAM family members varies widely: they function as cell adhesion molecules, tumor suppressors, regulators of lymphocyte and dendritic cell activation, receptors of Neisseria species and other bacteria.

### **CD66c Polyclonal Antibody - Additional Information**



#### **Gene ID 4680**

#### **Other Names**

Carcinoembryonic antigen-related cell adhesion molecule 6, Non-specific crossreacting antigen, Normal cross-reacting antigen, CD66c, CEACAM6, NCA

#### Target/Specificity

Found in adenocarcinomas of endodermally derived digestive system epithelium and fetal colon.

### **Dilution**

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<span class ="dilution_WB">WB~~1:1000</span><br \><span class
="dilution_IHC-P">IHC-P~~N/A</span><br \><span class
="dilution_IHC-F">IHC-F~~N/A</span><br \><span class
="dilution_IF">IF~~1:50~200</span><br \><span class ="dilution_E">E~~N/A</span>
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# **Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

### **CD66c Polyclonal Antibody - Protein Information**

### Name CEACAM6 (HGNC:1818)

#### **Function**

Cell surface glycoprotein that plays a role in cell adhesion and tumor progression (PubMed: <a href="http://www.uniprot.org/citations/10910050" target=" blank">10910050</a>, PubMed:<a href="http://www.uniprot.org/citations/11590190" target="\_blank">11590190</a>, PubMed:<a href="http://www.uniprot.org/citations/1378450" target="\_blank">1378450</a>, PubMed:<a href="http://www.uniprot.org/citations/16204051" target=" blank">16204051</a>, PubMed:<a href="http://www.uniprot.org/citations/2022629" target=" blank">2022629</a>, PubMed:<a href="http://www.uniprot.org/citations/2803308" target="blank">2803308</a>, PubMed:<a href="http://www.uniprot.org/citations/8776764" target="blank">8776764</a>). Intercellular adhesion occurs in a calcium- and fibronectin-independent manner (PubMed: <a href="http://www.uniprot.org/citations/16204051" target="\_blank">16204051</a>, PubMed:<a href="http://www.uniprot.org/citations/2022629" target="\_blank">2022629</a>). Mediates homophilic and heterophilic cell adhesion with other carcinoembryonic antigen-related cell adhesion molecules, such as CEACAM5 and CEACAM8 (PubMed: <a href="http://www.uniprot.org/citations/11590190" target=" blank">11590190</a>, PubMed:<a href="http://www.uniprot.org/citations/16204051" target="blank">16204051</a>, PubMed:<a href="http://www.uniprot.org/citations/2022629" target=" blank">2022629</a>, PubMed:<a href="http://www.uniprot.org/citations/2803308" target="\_blank">2803308</a>, PubMed:<a href="http://www.uniprot.org/citations/8776764" target="blank">8776764</a>). Heterophilic interaction with CEACAM8 occurs in activated neutrophils (PubMed:<a href="http://www.uniprot.org/citations/8776764" target=" blank">8776764</a>). Plays a role in neutrophil adhesion to cytokine-activated endothelial cells (PubMed: <a href="http://www.uniprot.org/citations/1378450" target=" blank">1378450</a>). Plays a role in cell migration and cell adhesion to endothelial cells (PubMed: <a href="http://www.uniprot.org/citations/16204051" target=" blank">16204051</a>).

### **Cellular Location**

Cell membrane; Lipid-anchor, GPI-anchor. Apical cell membrane. Cell surface. Note=Localized to the apical glycocalyx surface.

#### **Tissue Location**

Expressed in neutrophils (PubMed:1378450). Expressed in columnar epithelial and goblet cells of



the colon (PubMed:10436421). Expressed in numerous tumor cell lines (at protein level) (PubMed:16204051).

# **CD66c Polyclonal Antibody - 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

**CD66c Polyclonal Antibody - Images**