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CEACAM3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP13855B

Specification

CEACAM3 Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P40198
Other Accession	NP_001806.2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**27091**
Antigen Region	**163-191**

CEACAM3 Antibody (C-term) - Additional Information

Gene ID 1084

Other Names
Carcinoembryonic antigen-related cell adhesion molecule 3, Carcinoembryonic antigen CGM1, CD66d, CEACAM3, CD66D, CGM1

Target/Specificity
This CEACAM3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 163-191 amino acids from the C-terminal region of human CEACAM3.

Dilution
WB~~1:1000
IHC-P~~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
CEACAM3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CEACAM3 Antibody (C-term) - Protein Information

Name CEACAM3

Synonyms CD66D, CGM1

Function Major granulocyte receptor mediating recognition and efficient opsonin-independent phagocytosis of CEACAM-binding microorganisms, including Neissiria, Moxarella and Haemophilus species, thus playing an important role in the clearance of pathogens by the innate immune system. Responsible for RAC1 stimulation in the course of pathogen phagocytosis.

Cellular Location
Membrane; Single-pass type I membrane protein.

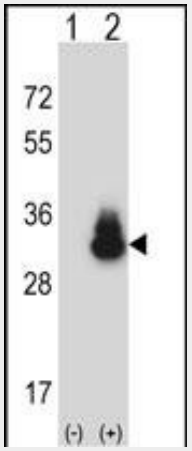
Tissue Location
CGM1a, the predominant CGM1 transcript, is granulocyte-specific. Not detected out of the granulocytic lineage, such as monocytes, lymphocytes, spleen, testis, colon, brain, liver, pancreas, thymus, ovary, placenta, skeletal muscle, prostate, small intestine, heart, lung and kidney.

CEACAM3 Antibody (C-term) - Protocols

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

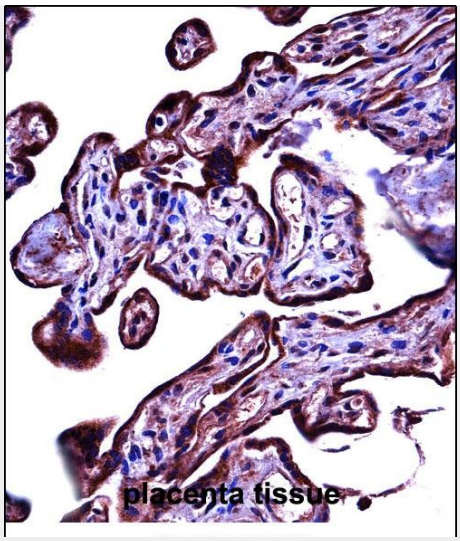
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CEACAM3 Antibody (C-term) - Images



Western blot analysis of CEACAM3 (arrow) using rabbit polyclonal CEACAM3 Antibody (C-term) (Cat. #AP13855b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the CEACAM3 gene.

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CEACAM3 Antibody (C-term) (AP13855b)immunohistochemistry analysis in formalin fixed and paraffin embedded human placenta tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CEACAM3 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

CEACAM3 Antibody (C-term) - Background

This gene encodes a member of the family of carcinoembryonic antigen-related cell adhesion molecules (CEACAMs), which are used by several bacterial pathogens to bind and invade host cells. The encoded transmembrane protein directs phagocytosis of several bacterial species that is dependent on the small GTPase Rac. It is thought to serve an important role in controlling human-specific pathogens by the innate immune system. Alternatively spliced transcript variants have been described, but their biological validity has not been determined.

CEACAM3 Antibody (C-term) - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Tsavaris, N., et al. J Chemother 21(6):673-680(2009)
Skubitz, K.M., et al. J Transl Med 6, 78 (2008) :
Stern-Ginossar, N., et al. J. Immunol. 179(7):4424-4434(2007)
Ali, C.W., et al. J Gastrointest Cancer 38 (2-4), 108-114 (2007) :