CEACAM3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CEACAM3, Polyclonal Antibody
Full Product Name	CEACAM3 Rabbit pAb
Product Gene Name	anti-CEACAM3 antibody
Product Synonym Names	CEA; CGM1; W264; W282; CD66D
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	38kDa
OMIM	609142
3D Structure	ModBase 3D Structure for P40198
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-135 of human CEACAM3 (NP_001806.2).
Cellular Localization	Membrane
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CEACAM3 antibody	Western Blot (WB)
Application Notes for anti-CEACAM3 antibody	WB: 1:500-1:2000
Related Product Information for anti-CEACAM3 antibody	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.
Other Notes	Small volumes of anti-CEACAM3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CEACAM3 purchase	MBS8545014 is an antibody targeting CEACAM3. Also known as CEACAM3 Rabbit pAb. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CEACAM3. It may not necessarily be applicable to this product.

NCBI GI #	218511974
NCBI GeneID	1084

NCBI Accession #	P40198.2
UniProt Primary Accession #	P40198
UniProt Related Accession #	P40198
NCBI Official Full Name	Carcinoembryonic antigen-related cell adhesion molecule 3
NCBI Official Synonym Full Names	CEA cell adhesion molecule 3
NCBI Official Symbol	CEACAM3
NCBI Official Synonym Symbols	CEA; CGM1; W264; W282; CD66D
UniProt Protein Name	Carcinoembryonic antigen-related cell adhesion molecule 3
UniProt Synonym Protein Names	Carcinoembryonic antigen CGM1; CD_antigen: CD66d
Protein Family	Carcinoembryonic antigen-related cell adhesion molecule
UniProt Gene Name	CEACAM3
UniProt Synonym Gene Names	CD66D; CGM1
UniProt Entry Name	CEAM3_HUMAN
NCBI Protein Information	carcinoembryonic antigen-related cell adhesion molecule 3
NCBI Summary for CEACAM3	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. [provided by RefSeq, Mar 2013]
UniProt Comments for CEACAM3	CEACAM3: 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. Interacts with S100A9/calprotectin. This interaction is calcium-dependent, but independent of CEACAM3 phosphorylation. 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. Belongs to the immunoglobulin superfamily. CEA family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Immunoglobulin superfamily; Membrane protein, integral; Cell adhesion Chromosomal Location of Human Ortholog: 19q13.2 Cellular Component: integral to membrane
Research Articles on CEACAM3	**1.** the findings reveal an integration of the specific innate immune receptor CEACAM3 into the network of more conventional pattern recognition receptors, providing a mechanism by which the innate immune system can unleash its response to a relentless pathogen.
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