

Rabbit anti-Human, Rat CEACAM3 Polyclonal Antibody | anti-CEACAM3 antibody

CEACAM3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326788	Rabbit	Human, Rat	ELISA, Immunohistochemistry, Western Blot

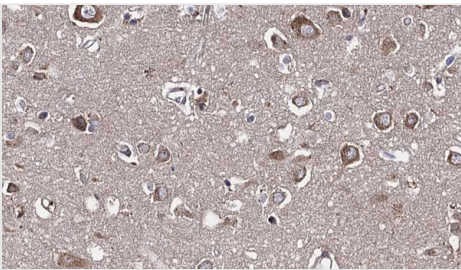
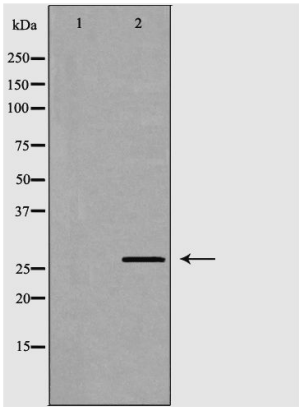
PRODUCT SYNONYMS

CEACAM3; Polyclonal Antibody; CEACAM3 Antibody; carcinoembryonic; Carcinoembryonic antigen CGM1; Carcinoembryonic antigen gene family member 1; carcinoembryonic antigen related cell adhesion molecule 3; Carcinoembryonic antigen-related cell adhesion molecule 3; cd66 d; CD66d; CD66d antigen; CEA; CEACAM 3; CEACAM-3; Ceacam3; CEAM 3; CEAM-3; CEAM3; CEAM3_HUMAN; CGM1; Nonspecific cross reacting antigen; W264; W282; anti-CEACAM3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CEACAM3 antibody detects endogenous levels of total CEACAM3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	212
Applicable Applications for anti-CEACAM3 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CEACAM3
Subcellular Location	Membrane.
Tissue Specificity	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.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA326788 at 1/100 staining Human brain cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of HT29 cell lysate, using CEACAM3 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CEACAM3 antibody

Description: 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.

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.

Subunit Structure: Interacts with S100A9/calprotectin. This interaction is calcium-dependent, but independent of CEACAM3 phosphorylation.

Post-translational Modifications: Tyrosine-phosphorylated in response to microbial binding. Tyr-230 and Tyr-241 are both required for phosphorylation to be detected.

Similarity: The cytosolic domain is involved in S100A9 interaction. Belongs to the immunoglobulin superfamily. CEA family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	461496471
NCBI GeneID	1084
NCBI Accession #	NP_001264092.1
NCBI GenBank Nucleotide #	NM_001277163.2
UniProt Accession #	P40198; Q3KPH9; G5E978
Molecular Weight	Observed: 27 kDa Predicted: 28 kDa
NCBI Official Full Name	carcinoembryonic antigen-related cell adhesion molecule 3 isoform 2
NCBI Official Synonym Full Names	carcinoembryonic antigen related cell adhesion molecule 3
NCBI Official Symbol	CEACAM3
NCBI Official Synonym Symbols	CEA; CGM1; W264; W282; CD66D
NCBI Protein Information	carcinoembryonic antigen-related cell adhesion molecule 3
UniProt Protein Name	Carcinoembryonic antigen-related cell adhesion molecule 3

UniProt Gene Name	CEACAM3
UniProt Synonym Gene Names	CD66D; CGM1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ceacam3-antibody-immunohistochemistry-western-blot-elisa/326788>