

Rabbit anti-Human CEACAM-1/CD66a Polyclonal Antibody | anti-CEACAM-1/CD66a antibody

CEACAM-1/CD66a Polyclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA179748	Rabbit	Human	Immunohistochemistry

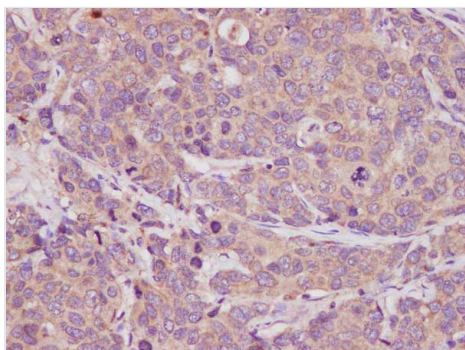
PRODUCT SYNONYMS

CEACAM-1/CD66a; Polyclonal Antibody; CEACAM-1/CD66a Polyclonal Antibody; bb-1; BGP-1; BGPI; Biliary glycoprotein adhesion molecule; Carcinoembryonic antigen related cell adhesion molecule 1; carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein); Cc1; C-CAM; CD66a antigen; Cea1; Cea-1; Cea7; Cea-7; CEAM1; Hv2; Hv-2; mCEA1; Mhv-1; mmCGM1; mmCGM1a; mmCGM2; Antigen CD; meconium antigen; Biliary glycoprotein; Carcinoembryonic antigen-related cell adhesion molecule; MHVR; CEACAM; Antigen CD66; BGP 1; Biliary glycoprotein 1; Biliary glycoprotein D; Carcinoembryonic antigen-related cell adhesion molecule 1; CD66a; meconium antigen 100; MHV-R; MHVR1; Murine hepatitis virus receptor; Bgp; Bgp1; Ceacam1; CEACAM-1; CEACAM-2; BGP; CEA-1; anti-CEACAM-1/CD66a antibody

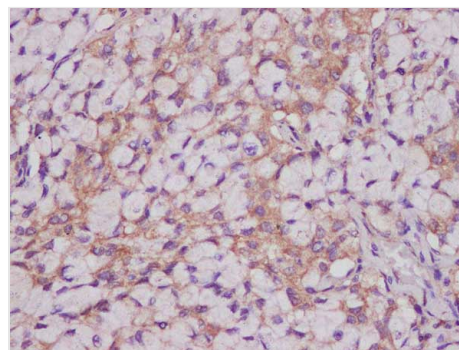
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Antigen Affinity Purification
Form/Format	PBS with 0.02% sodium azide, 1% protective protein and 50% glycerol, pH7.4
Concentration	1mg/mL (varies by lot)
Applicable Applications for anti-CEACAM-1/CD66a antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant Mouse CEACAM-1/CD66a protein expressed by E coli
Preparation and Storage	Store at -20 degree C Valid for 12 months. Avoid freeze/thaw cycles. Protected from prolonged exposure to light.

IMAGES



IHC (Immunohistochemistry)
Immunohistochemistry of paraffin-embedded human gastric cancer using CEACAM-1/CD66a Polyclonal Antibody at dilution of 1:1500.



IHC (Immunohistochemistry)
Immunohistochemistry of paraffin-embedded human lung cancer using CEACAM-1/CD66a Polyclonal Antibody at dilution of 1:1500.

ADDITIONAL INFORMATION

Related Product Information for anti-CEACAM-1/CD66a antibody	Carcinoembryonic antigen (CEA)-related cell adhesion molecule 1 (CEACAM-1; also called BGP and designated CD66a) is a 160 kDa member of the CEACAM branch of the CEA gene family of the immunoglobulin superfamily. It is one of seven human CEACAM subfamily genes that are essentially divided equally between type I transmembrane proteins (CEACAM-1, 3, and 4) and GPI-linked molecules (CEACAM-5-8). There is no CEACAM-2 in human. The gene for human CEACAM-1 codes for a 526 amino acid (aa) type I transmembrane protein that contains a 34 aa signal sequence, a 394 aa extracellular domain (ECD), a 24 aa transmembrane segment, and a 74 aa cytoplasmic region. The ECD contains one N-terminal V-type Ig-like domain, followed by three C2-type Ig-like domains. It shows considerable glycosylation, including high mannose residues and (sialyl) LewisX. The cytoplasmic region shows one ITIM motif and a calmodulin binding site. In addition to the full length form, ten alternate splice forms have been reported. There are three soluble and seven transmembrane isoforms, with variations occurring in both the ECD and cytoplasmic region. All ten alternate splice forms contain the V-type Ig-like domain (aa's 35-142). The three soluble forms also contain the first two C2-type Ig-like domains (aa's 145-317), with differences coming in the third C2-type Ig-like domain. The seven transmembrane isoforms are highly divergent. Five of the seven contain the V-type plus the first two C2-type domains and then diverge considerably both in the ECD and cytoplasmic region. The remaining two contain only the V-type Ig-like domain, the transmembrane region, and either a full-length or truncated cytoplasmic tail. The actual functions of the isoforms are unclear. Full-length mouse and rat CEACAM-1 are approximately 57% aa identical to human CEACAM-1; in the V-type Ig-like domain, they are 58% and 56% aa identical, respectively. The full-length molecule is found on neutrophils, bile duct epithelium, activated NK cells, colonic columnar epithelium and endothelium. It is known to act as an intercellular adhesion molecule, forming both homotypic, and heterotypic bonds with CEA and CEACAM-6/NCA. On neutrophils, CEACAM-1 also binds to dendritic cell CD-SIGN via its LeX moiety, inducing dendritic cell maturation and a subsequent Th1-type response.
Product Categories/Family for anti-CEACAM-1/CD66a antibody	Polyclonal Antibodies; Primary Antibodies; Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	85719299
NCBI GeneID	26365
NCBI Accession #	NP_001034274.1
NCBI GenBank Nucleotide #	NM_001039185.1
UniProt Accession #	P31809 ; Q61353
Molecular Weight	37,271 Da
NCBI Official Full Name	carcinoembryonic antigen-related cell adhesion molecule 1 isoform 1
NCBI Official Synonym Full Names	carcinoembryonic antigen-related cell adhesion molecule 1
NCBI Official Symbol	Ceacam1
NCBI Official Synonym Symbols	Bgp; Cc1; Hv2; Bgp1; Cea1; Cea7; Hv-2; MHVR; bb-1; C-CAM; CD66a; Cea-1; Cea-7; MHVR1; Mhv-1; mCEA1; mmCGM1; mmCGM2; mmCGM1a
NCBI Protein Information	carcinoembryonic antigen-related cell adhesion molecule 1; BGP-1; MHV-R; biliary glycoprotein 1; biliary glycoprotein D; hepatitis virus receptor; carcinoembryonic antigen 1; carcinoembryonic antigen 7; murine hepatitis virus receptor; CEA-related cell ad
UniProt Protein Name	Carcinoembryonic antigen-related cell adhesion molecule 1
UniProt Gene Name	Ceacam1
UniProt Synonym Gene Names	BGP-1; MHV-R

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.