

Product datasheet for **AM26011PU-N**

CEACAM1 Mouse Monoclonal Antibody [Clone ID: C5-1X]

Product data:

Product Type:	Primary Antibodies
Clone Name:	C5-1X
Applications:	ELISA, FC, IF, IP, WB
Recommended Dilution:	ELISA: Use at 2-10 µg/ml. Flow Cytometry: Use at 1-5 µg/ml. Immunofluorescence/Immunohistochemistry: Use at 2-5 µg/ml. Immunoprecipitation: Use at 10 µg/IP Western blot: Use at 2-5 µg/ml. Fluorescence microscopy. Affinity purification.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant Human soluble CEACAM-1-Fc lacking the N-domain (produced in HEK293 cells)
Specificity:	This Monoclonal antibody (C5-1X) interacts solely with Human CEACAM-1 and shows no cross-reactivity with other CEACAMs expressed in Human or other species! C5-1X binds to the A1-B-Domain! Does not react with Rat, Mouse, Dog, Cattle.
Formulation:	PBS, pH 7.4 State: Purified State: Lyophilized purified IgG fraction of cell culture supernatant
Reconstitution Method:	Restore in sterile water to a concentration of 0.1-1.0 mg/ml. Centrifuge vial prior to opening.
Purification:	Protein G Chromatography
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.



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Stability: Shelf life: one year from despatch.

Gene Name: carcinoembryonic antigen related cell adhesion molecule 1

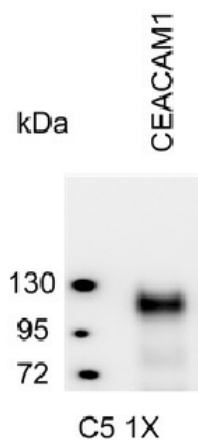
Database Link: [Entrez Gene 634 Human P13688](#)

Background: Carcinoembryonic antigen (CEA)-related cell adhesion molecule 1 (CEACAM1? also BGP) is a 160 kDa member of the CEACAM branch of the CEA gene family of the immunoglobulin superfamily (1-3). It is one of seven human CEACAM subfamily genes that are essentially divided equally between type I trans-membrane proteins (CEACAM1, 3-4) and GPI-linked molecules (CEACAM5-8). There is no CEACAM2 in human. The gene for human CEACAM1 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 74aa cytoplasmic region (4, 5). The ECD contains one N-terminal V-type followed by three C2-type Ig-like domains. It shows considerable glycosylation (1). There are three soluble and seven transmembrane isoforms. 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 (6). The seven transmembrane isoforms are highly divergent. Full-length mouse and rat CEACAM1 are approximately 57% aa identical to human CEACAM1? 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.

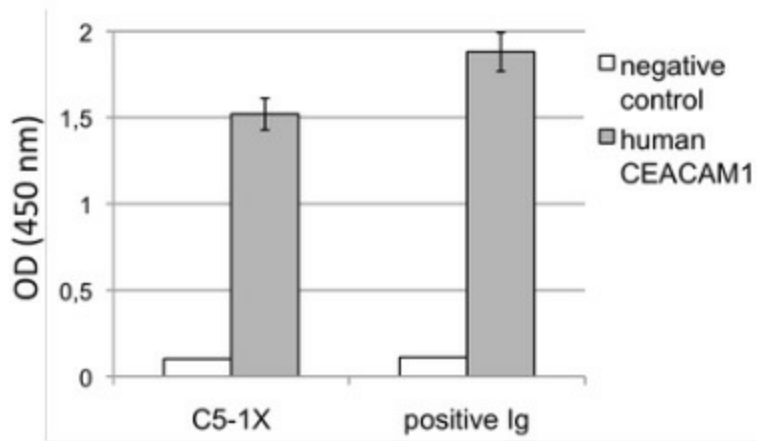
Synonyms: BGP, BGP1, Biliary glycoprotein 1

Protein Families: Druggable Genome, Transmembrane

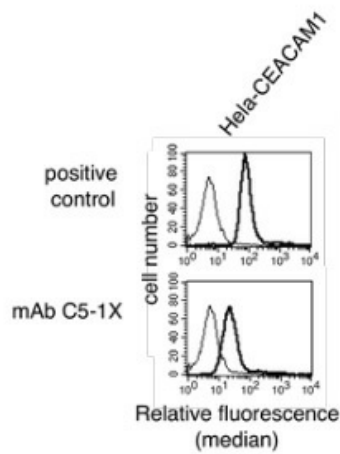
Product images:



Western blot: Human CEACAM-1 lysate Detection utilising 10 ug/ml.



Sandwich ELISA: Solid phase was coated with 3 ug/ml anti CEA binding human CEACAM1-CEACAM8. After washing, blocking and coating human CEACAM1 antigen, detecting antibody mAb C5-1X (10 ug/ml) followed by HRP-coupled goat anti-mouse Ig was added. TMB was used for visualizing the binding measured by Tecan-ELISA reader at 450 nm.



Flow cytometry: 10 ug/ml of primary mAb C5-1X; 250.000 HeLa-human CEACAM1 cells.