

Recombinant Mouse CEACAM-1/CD66a Protein (Fc Tag)

RPE8474



Product Information

Product SKU: RPE8474	Expression Host: Mammalian	Size: 20µg
Tag: C-Fc	Reactivity: Mouse	Accession: P31809

Additional Information

Calculated MW: 68.2 kDa	Observed MW: 90 kDa
Sequence: Glu35-Gly428	

Protein Information

Background: The carcinoembryonic-antigen-related cell-adhesion molecule (CEACAM) family of proteins has been implicated in various intercellular-adhesion and intracellular-signalling-mediated effects that govern the growth and differentiation of normal and cancerous cells. CEACAM1, also known as biliary glycoprotein I (BGP I) and CD66a, is a member of the carcinoembryonic antigen (CEA) gene family which belongs to the immunoglobulin superfamily. The highly glycosylated CEACAM1 contains one N-terminal V-type Ig-like domain and three C2-type Ig-like domains within its ECD, and one ITIM motif and a calmodulin binding site in the cytoplasmic region. CEACAM1 is a surface glycoprotein expressed on various blood cells, epithelial cells, and vascular cells. It was described as an adhesion molecule mediating cell adhesion via both homophilic and heterophilic manners, and was detected on leukocytes, epithelia, and endothelia. Studies have revealed that CEACAM1 performs actions in multiple cellular processes including tissue differentiation, angiogenesis, apoptosis, metastasis, as well as the modulation of innate and adaptive immune responses.

Synonyms: 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,

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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

Endotoxin: < 1.0 EU/mg of the protein as determined by the LAL method

Formulation: Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.

Purity: > 90% as determined by reducing SDS-PAGE.

Bio-Activity: Not validated for activity

Storage: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.