

# Recombinant Rat CEACAM-1/CD66a Protein (Fc Tag)

RPE8532



## Product Information

<b>Product SKU:</b> RPE8532	<b>Expression Host:</b> Mammalian	<b>Size:</b> 20µg
<b>Tag:</b> C-Fc	<b>Reactivity:</b> Rat	<b>Accession:</b> P16573

## Additional Information

<b>Calculated MW:</b> 67.9 kDa	<b>Observed MW:</b> 90 kDa
<b>Sequence:</b> Gln35-Ala425	

## 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, CEAM, MHVR, BGP 1, Antigen CD66, Bgp1, Biliary glycoprotein 1, Biliary glycoprotein D, Carcinoembryonic antigen-related cell adhesion molecule 1, Carcinoembryonic Antigen-related Cell Adhesion Molecule 5, CD66, CD66a, CD66E, CEACAM5, meconium antigen 100, MHV-R, MHVR1, Murine hepatitis virus receptor, Ceacam1, CEAM1, BGP, BGP-1, BGPI, Biliary

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glycoprotein adhesion molecule, Carcinoembryonic antigen related cell adhesion molecule 1, carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein), CD66a antigen

**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.