

# Recombinant Mouse EpCAM/TROP-1 Protein (Fc Tag)

RPE8501



## Product Information

<b>Product SKU:</b> RPE8501	<b>Expression Host:</b> Mammalian	<b>Size:</b> 20µg
<b>Tag:</b> C-Fc	<b>Reactivity:</b> Mouse	<b>Accession:</b> Q99JW5

## Additional Information

<b>Calculated MW:</b> 51.6 kDa	<b>Observed MW:</b> 55 kDa
<b>Sequence:</b> Gln24-Lys266	

## Protein Information

**Background:** Epithelial Cell Adhesion Molecule (EpCAM), also known as GA733-2 antigen, is a type I transmembrane glycoprotein composed of an extracellular domain with two EGF-Like repeats and a cystenin-rich region, a transmembrane domain and a cytoplasmic domain. It modulates cell adhesion and proliferation. Its overexpression has been detected in many epithelial tumours and has been associated with high stage, high grade and a worse survival in some tumour types. EpCAM has been shown to function as a calcium-independent homophilic cell adhesion molecule that does not exhibit any obvious relationship to the four known cell adhesion molecule superfamilies. However, recent insights have revealed that EpCAM participates in not only cell adhesion, but also in proliferation, migration and differentiation of cells. In addition, recent study revealed that EpCAM is the Wnt-beta-catenin signaling target gene and may be used to facilitate prognosis. It has oncogenic potential and is activated by release of its intracellular domain, which can signal into the cell nucleus by engagement of elements of the wnt pathway.

**Synonyms:** EGP, Megp, Tacstd, EGP314, Ep-CAM, Megp314, Tacstd1, Epcam, MK-1, KSA, EGP40, 17 1A, 323/A3, 35-KD glycoprotein, Adenocarcinoma associated antigen, Adenocarcinoma-associated antigen, Antigen identified by monoclonal AUA1, AUA1, CD326, CD326 antigen, Cell surface glycoprotein Trop 1, Cell surface glycoprotein Trop 2, Cell surface glycoprotein Trop-1, chromosome 4, CO 17A, CO17 1A, CO17A,

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DIAR5, EGP 2, EGP2, EGP-2, EGP40, Ep CAM, EpCAM1, epithelial cell adhesion molecule, Epithelial Cell Adhesion Molecule Intracellular Domain (EpCAM-ICD), Epithelial cell surface antigen, Epithelial cellular adhesion molecule, Epithelial glycoprotein, Epithelial glycoprotein 1, Epithelial glycoprotein 314, ESA, GA733 1, GA733 2, GA733-2, gastrointestinal tumor-associated antigen 2, gp4, gp40, hEGP 2, hEGP314, HNPCC8, Human epithelial glycoprotein 2, KS 1/4 antigen, KS1/4, KSA, Ly74, Lymphocyte antigen 74, M1S 1, M1S2, M4S1, Major gastrointestinal tumor associated protein GA733 2, Major gastrointestinal tumor-associated protein GA733-2, Membrane component, Membrane component chromosome 4 surface marker (35kD glycoprotein), MIC18, MK 1, MK-1, Neurotrophic tyrosine kinase receptor-related 1, Protein 289A, receptor tyrosine kinase-like orphan receptor 1, ROR1, surface marker, surface marker 1, TACD1, Tacsd1, TROP1, Tumor associated calcium signal transducer 1, Tumor associated calcium signal transducer 2 precursor, Tumor-associated calcium signal transducer 1, tyrosine-protein kinase transmembrane receptor ROR1

- 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.