Recombinant Mouse EpCAM/TROP-1 Protein (His Tag)

RPES8482

Product Information

Product SKU:	RPES8482	**Expression Host**:	Mammalian	**Size**:	20µg
Tag:	C-His	**Reactivity**:	Mouse	**Accession**:	Q99JW5

Additional Information

Calculated MW:	26.6 kDa	**Observed MW:**	35 kDa
Sequence:	Gln24-Thr266		

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,

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℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.

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