



Recombinant Protein Technical Manual
Recombinant Mouse EpCAM/TROP Protein (His Tag)
RPES0930

Product Data:

Product SKU: RPES0930

Size: 50µg

Species: Mouse

Expression host: HEK293 Cells

Uniprot: NP_032558.2

Protein Information:

Molecular Mass: 29 kDa

AP Molecular Mass: 37 kDa

Tag: C-His

Bio-activity:

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg of the protein as determined by the LAL method.

Storage: 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.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Neurotrophic tyrosine kinase receptor-related 1; receptor tyrosine kinase-like orphan receptor 1; ROR1; tyrosine-protein kinase transmembrane receptor ROR1; Epithelial cell adhesion molecule; Tumor-associated calcium signal transducer 1; TROP1; CD326; EGP; EGP-2; Egp314; Ep-CAM; EpCAM1; GA733-2; gp40; Ly74; Tacsd1; Tacstd1

Immunogen Information:

Sequence: Met 1-Thr 266

Background:

Epithelial Cell Adhesion Molecule (EpCAM), also known as GA733-2 antigen, is a type 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.