

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

Catalog No. PKSM041339

Note: Centrifuge before opening to ensure complete recovery of vial contents.

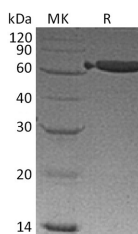
Description

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
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Gln24-Thr266
Accession	Q99JW5
Calculated Molecular Weight	54.8 kDa
Observed molecular weight	60-80 kDa
Tag	C-Fc
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

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Background

Epithelial Cellular Adhesion Molecule (Ep-CAM), also known as EGP314, mEGP314, Protein 289A, Tumor-associated calcium signal transducer 1, CD326, belongs to the EPCAM family. Its' monomer subunit structure interacts with phosphorylated CLDN7. Ep-CAM may act as a physical homophilic interaction molecule between intestinal epithelial cells (IECs) and intraepithelial lymphocytes (IELs) at the mucosal epithelium for providing immunological barrier as a first line of defense against mucosal infection. It plays a role in embryonic stem cells proliferation and differentiation. It also up-regulates the expression of FABP5, MYC and cyclins A and E. The post-translational modification glycosylation at Asn-198 is crucial for protein stability.

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