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Recombinant Mouse Ep-CAM/TROP-1/CD326 Protein

Catalog No.: RP01570 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	17075	Q99JW5

Tags
C-His

Synonyms
17-1A; 323/A3; ACSTD1;CD326;EGP-2; EGP314; EGP40; EpCAM; MOC31; TACST-1; TACSTD1;TROP1;EpCAM

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin
<0.1EU/μg

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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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 structureinteracts with phosphorylated CLDN7. Ep-CAM may act as a physical homophilic interaction molecule betweenintestinal epithelial cells (IECs) and intraepithelial lymphocytes (IELs) at the mucosal epithelium for providingimmunological barrier as a first line of defense against mucosal infection. It plays a role in embryonic stem cellsproliferation and differentiation. It also up-regulates the expression of FABP5, MYC and cyclins A and E. Thepost-translational modification glycosylation at Asn-198 is crucial for protein stability.

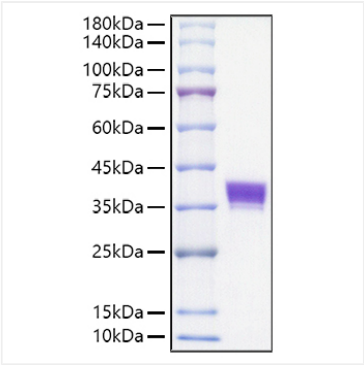
Basic Information

Description
Recombinant Mouse Ep-CAM/TROP-1/CD326 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln24-Thr266) of mouse Ep-CAM/TROP-1/CD326 (Accession #NP_032558.2) fused with a 6×His tag at the C-terminus.

Bio-Activity

Storage
Store the lyophilized protein at -20°C to -80°C for 12 months.
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Mouse Ep-CAM/TROP-1/CD326 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 35-40 kDa.