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

Catalog No. PKSH030447

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

Description

Synonyms DIAR5;EGP-2;EGP314;EGP40;ESA;HNPCC8;KS1/4;KSA;M4S1;MIC18;MK-1;T

ACSTD1;TROP-1;TROP1

Species Human

Expression Host HEK293 Cells **Sequence** Met 1-Lys265 NP_002345.1 Accession

Calculated Molecular Weight 29 kDa Observed molecular weight 36 kDa Tag C-His

Bioactivity Measured by the ability of the immobilized protein to support the adhesion of

> NIH-3T3 mouse embryonic fibroblast cells. When cells are added to EpCAM-His coated plates (1. 25µg/mL, 100µL/well), approximately > 40% will adhere

specifically after 30 minutes at 37°C.

Properties

Purity > 96 % 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 sterile PBS, pH 7.4

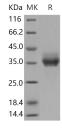
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

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



> 96 % as determined by reducing SDS-PAGE.

For Research Use Only

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Background

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

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