

# Recombinant Human EpCAM/TROP-1 Protein (Fc Tag)

Catalog Number:PKSH032383

 **DIA-AN®**  
by Elabscience

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

## Description

### Synonyms

Epithelial Cell Adhesion Molecule;Ep-CAM;Adenocarcinoma-Associated Antigen;Cell Surface Glycoprotein Trop-1;Epithelial Cell Surface Antigen;Epithelial Glycoprotein 314;EGP314;Major Gastrointestinal Tumor-Associated Protein GA733-2;Tumor-Associated Calcium Signal Transducer 1;CD326;EPCAM;GA733-2;TROP1

### Species

Human

### Expression Host

HEK293 Cells

### Sequence

Gln24-Lys265

### Accession

AAH14785.1

### Calculated Molecular Weight

54.5 kDa

### Observed molecular weight

60-80 kDa

### Tag

C-Fc

## 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.

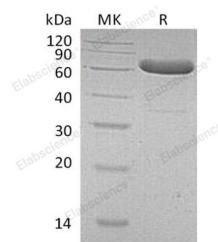
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

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.

## Background

Epithelial Cell Adhesion Molecule (EpCAM) is a signal type I transmembrane glycoprotein that belongs to the EPCAM family. EpCAM is composed of an extracellular domain with one thyroglobulin type-1 domain; a transmembrane domain and a cytoplasmic domain. EpCAM is found on the surface of adenocarcinoma; but not on mesodermal or neural cell membranes. The EpCAM molecule has been shown to function as a homophilic Ca<sup>2+</sup> independent adhesion molecule. It

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Toll-free: 1-888-852-8623

Tel: 1-832-243-6086

Fax: 1-832-243-6017

Web: [www.elabscience.com](http://www.elabscience.com)

Email: [techsupport@elabscience.com](mailto:techsupport@elabscience.com)

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may act as a physical homophilic interaction molecule between intestinal epithelial cells (IECs) and intraepithelial lymphocytes (IELs) at the mucosal epithelium as an immunological barrier providing the first line of defense against infection. Defects in EPCAM are a cause of hereditary non-polyposis colorectal cancer type 8 (HNPCC8) and diarrhea type 5 (DIAR5). EpCAM plays a role in embryonic stem cells proliferation and differentiation; it up-regulates the expression of FABP5; MYC and Cyclin A and Cyclin E. It is highly and selectively expressed by undifferentiated embryonic stem cells.

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Tel: 1-832-243-6086

Email: [techsupport@elabscience.com](mailto:techsupport@elabscience.com)

Fax: 1-832-243-6017