

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

**Catalog Number:** PKSM041339

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

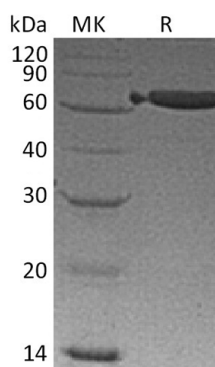
### Description

<b>Species</b>	Mouse
<b>Source</b>	HEK293 Cells-derived Mouse EpCAM/TROP-1 protein Gln24-Thr266, with an C-terminal Fc
<b>Calculated MW</b>	54.8 kDa
<b>Observed MW</b>	60-80 kDa
<b>Accession</b>	Q99JW5
<b>Bio-activity</b>	Immobilized Recombinant Mouse EpCAM (C-Fc)(PKSM041339) at 1µg/ml (100 µl/well) can bind Anti-Human EpCAM Antibody(Human IgG4): Biotinylated by NHS-biotin prior to testing. The ED <sub>50</sub> of Anti-Human EpCAM Antibody is 25.73ng/ml.

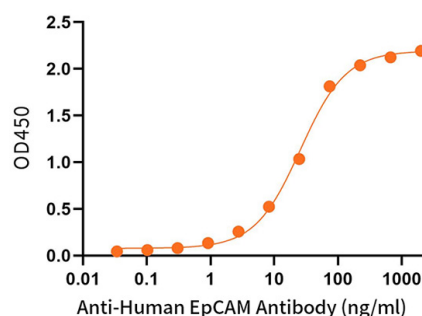
### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
<b>Reconstitution</b>	Please refer to the specific buffer information in the printed manual. Please refer to the printed manual for detailed information.

### Data



> 95 % as determined by reducing SDS-PAGE.



Immobilized Recombinant Mouse EpCAM (C-Fc) (PKSM041339) at 1µg/ml (100 µl/well) can bind Anti-Human EpCAM Antibody(Human IgG4): Biotinylated by NHS-biotin prior to testing. The ED<sub>50</sub> of Anti-Human EpCAM Antibody is 25.73ng/ml.

### Background

### For Research Use Only

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.