

# Human EpCAM / TROP-1 / TACSTD1 Protein (His Tag), Biotinylated

Catalog Number: 10694-H08H-B



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

DIAR5; EGP-2; EGP314; EGP40; ESA; HNPCC8; KS1/4; KSA; M4S1; MIC18; MK-1; TACSTD1; TROP-1; TROP1

### Protein Construction:

A DNA sequence encoding the extracellular domain (Met1-Lys265) of human EpCAM (NP\_002345.1) was fused with a polyhistidine tag at the C-terminus. The purified protein was biotinylated in vitro.

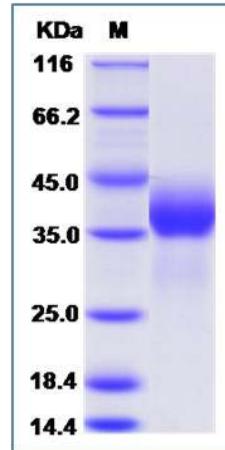
**Source:** Human

**Expression Host:** HEK293 Cells

## QC Testing

**Purity:** > 95% as determined by SDS-PAGE.

### SDS-PAGE:



## Protein Description

Epithelial Cell Adhesion Molecule (EpCAM), also known as GA733-2 antigen, is a type I transmembrane glycoprotein composed of an extracellular domain with two EGF-Like repeats and a cystein-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.

## References

- 1.Brunner A, *et al.* (2008) EpCAM is predominantly expressed in high grade and advanced stage urothelial carcinoma of the bladder. *J Clin Pathol.* 61(3):307-10.
- 2.Trzpis M, *et al.* (2008) EpCAM in morphogenesis. *Front Biosci.* 13: 5050-5.
- 3.Munz M, *et al.* (2009) The emerging role of EpCAM in cancer and stem cell signaling. *Cancer Res.* 69(14): 5627-9.

## Usage Guide

### Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

### Avoid repeated freeze-thaw cycles.

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

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