

# Recombinant human EpCAM/TROP-1 protein

Catalog Number: ATGP1845

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

24-265aa

### UniProt No.

P16422

### NCBI Accession No.

NP\_002345

### Alternative Names

Epithelial cell adhesion molecules, CD326, KS1/4, KSA, M4S1, MIC18, MK-1, TACSTD1, TROP1, DIAR5, EGP, GA733 2, HNPCC8

## PRODUCT SPECIFICATION

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### Molecular Weight

30.1 kDa (267aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Epithelial cell adhesion molecules, also known as EPCAM, 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. This protein plays a role in embryonic stem cells proliferation and differentiation. Recombinant human EPCAM protein, fused to His-tag at N-terminus, was expressed in E. coli.

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### Amino acid Sequence

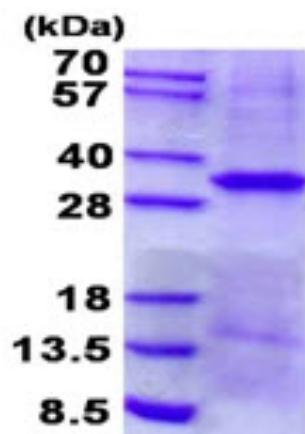
MGSSHHHHHH SSGLVPRGSH MGSQMEECV CENYKLAVNC FVNNNRQCQC TSVGAQNTVI CSKLAACKLV  
MKAEMNGSKL GRRAKPEGAL QNNDGLYDPD CDEGLFKAK QCNGTSMCWC VNTAGVRRTD KDTEITCSER VRTYWIIIEI  
KHKAREKPYD SKSLRTALQK EITTRYQLDP KFITSILYEN NVITIDLQVN SSQKTQNDVD IADVAYYFEK DVKGESLFHS  
KKMDLTVNGE QLDLDPGQTL IYYVDEKAPE FSMQGLK

### General References

Muenz M., et al. (2004) *Oncogene*.23:5748-5758  
Muenz M., et al. (2005) *Cancer Lett.* 225:151-157

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)