

# Recombinant Human EPCAM protein, His-tagged

**Cat. No.** EPCAM-72H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human TACSTD1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | TACSTD1, also known as tumor-associated calcium signal transducer 1, is a membrane glycoprotein expressed on adenomatous and simple epithelia, where it is involved in homophilic adhesion at the basolateral membrane. It 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. |
| <b>Form</b>             | Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | 28.2kDa (248aa)28-40kDa (SDS-PAGE under reducing conditions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>AA Sequence</b>      | QEECVCCENYK LAVNCFVNNN RQCQCTSVGA QNTVICKSLA AKCLVMKAEM<br>NGSKLGRRRAK PEGALQNNDG LYDPDCDESG LFKAKQCNGTSTCWCVNTAG<br>VRRTDKDTEI TCSEVRITYW IIIELKHKAR EKPYSKSLR TALQKEITTR<br>YQLDPKFITS ILYENNVITI DLVQNSSQKTQNDVDIADVA YYFEKDVKG<br>SLFHSSKMDL TVNGEQLDLG PGQTLIIYVD EKAPEFSMQG LKHHHHHHH                                                                                                                                                                                                                                                                       |

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|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>     | < 1.0 EU per 1 microgram of protein (determined by LAL method)                                                                                                                   |
| <b>Purity</b>        | >95% by SDS – PAGE                                                                                                                                                               |
| <b>Storage</b>       | Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles. |
| <b>Concentration</b> | 1mg/ml (determined by Absorbance at 280nm)                                                                                                                                       |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">EPCAM epithelial cell adhesion molecule [ Homo sapiens ]</a>                                                                                                                                                                                                                                                                                                                                |
| <b>Official Symbol</b> | <a href="#">EPCAM</a>                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>        | ESA; KSA; M4S1; MK-1; DIAR5; EGP-2; EGP40; KS1/4; MIC18; TROP1; EGP314; HNPCC8; TACSTD1; adenocarcinoma-associated antigen; cell surface glycoprotein Trop-1; epithelial glycoprotein 314; human epithelial glycoprotein-2; major gastrointestinal tumor-associated protein GA733-2; membrane component, chromosome 4, surface marker (35kD glycoprotein); tumor-associated calcium signal transducer 1 |
| <b>Gene ID</b>         | <a href="#">4072</a>                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>     | <a href="#">NM_002354</a>                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Protein Refseq</b>  | <a href="#">NP_002345</a>                                                                                                                                                                                                                                                                                                                                                                               |
| <b>MIM</b>             | <a href="#">185535</a>                                                                                                                                                                                                                                                                                                                                                                                  |

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|---------------------|-------------------------------------------------------------------------------------------|
| UniProt ID          | P16422                                                                                    |
| Chromosome Location | 2p21                                                                                      |
| Function            | cadherin binding involved in cell-cell adhesion; protein binding; protein complex binding |

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