Recombinant Human EPCAM protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human TACSTD1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
Description	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.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	28.2kDa (248aa)28-40kDa (SDS-PAGE under reducing conditions)
AA Sequence	QEECVCENYK LAVNCFVNNN RQCQCTSVGA QNTVICSKLA AKCLVMKAEM NGSKLGRRAK PEGALQNNDG LYDPDCDESG LFKAKQCNGTSTCWCVNTAG VRRTDKDTEI TCSERVRTYW IIIELKHKAR EKPYDSKSLR TALQKEITTR YQLDPKFITS ILYENNVITI DLVQNSSQKTQNDVDIADVA YYFEKDVKGE SLFHSKKMDL TVNGEQLDLD PGQTLIYYVD EKAPEFSMQG LKHHHHHH

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Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Purity	>95% by SDS – PAGE
Storage	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.
Concentration	1mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name	EPCAM epithelial cell adhesion molecule [Homo sapiens]
Official Symbol	EPCAM
Synonyms	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
Gene ID	4072
mRNA Refseq	NM_002354
Protein Refseq	NP_002345
MIM	185535

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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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