

# Recombinant Active Human EPCAM Protein, His-tagged(C-ter)

**Cat. No.** EPCAM-66H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Product Overview</b> | Recombinant Active Human EPCAM Protein with His tag (C-ter) was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | This gene encodes a carcinoma-associated antigen and is a member of a family that includes at least two type I membrane proteins. This antigen is expressed on most normal epithelial cells and gastrointestinal carcinomas and functions as a homotypic calcium-independent cell adhesion molecule. The antigen is being used as a target for immunotherapy treatment of human carcinomas. Mutations in this gene result in congenital tufting enteropathy. [provided by RefSeq, Dec 2008] |
| <b>Form</b>             | Powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Bio-activity</b>     | Determined by the ability of the immobilized protein to support the adhesion of the 3T3 cells. The ED50 for this effect is 0.2-1.7 ng/mL.                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | <p>MQEECV CENYKLAVNCFVNNNRQCQCTSVGAQNTVICKLA AKCLVMKAEMNGSK</p> <p>LGRRAKPEGALQNNDGLYDPDCDESGLFKAKQCNGTSMCWCVN TAGVVRGSKLGR</p> <p>RAKPEGALQNNDGLYDPDCDESGLFKAKQCNGTSMCWCVN TAGVRSILYENNVITI</p> <p>DLVQNSSQKTQNDVDIADVAYYFEKDVKGESLFH SKKMDLTVNGEQLDLDPGQT LIY</p> <p>YVDEKAPEFSMQGLK</p>                                                                                                                                                                                                  |

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | Endotoxin level is less than 0.1 EU/μg of the protein, as determined by the LAL test.                                                                                                                                                                       |
| <b>Purity</b>         | > 95% (by SDS-PAGE)                                                                                                                                                                                                                                         |
| <b>Applications</b>   | SDS-PAGE                                                                                                                                                                                                                                                    |
| <b>Notes</b>          | For laboratory research only, not for drug, diagnostic or other use.                                                                                                                                                                                        |
| <b>Storage</b>        | Lyophilized protein should be stored at -20°C. After reconstitution, aliquot and store at -20°C or -80°C for up to one month. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. |
| <b>Storage Buffer</b> | PBS (pH 8.0)                                                                                                                                                                                                                                                |
| <b>Reconstitution</b> | It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL and incubate the stock solution for at least 20 min at room temperature to make sure the protein is dissolved completely.             |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <b>EPCAM</b> epithelial cell adhesion molecule [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Official Symbol</b> | <b>EPCAM</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>        | EPCAM; epithelial cell adhesion molecule; antigen identified by monoclonal AUA1 , M4S1, MIC18, TACSTD1, tumor associated calcium signal transducer 1; 17 1A; 323/A3; CD326; CO 17A; EGP 2; EGP34; EGP40; Ep CAM; ESA; GA733 2; HEA125; KS1/4; KSA; Ly74; MH99; MK 1; MOC31; TACST 1; TROP1; epithelial glycoprotein 314; human epithelial glycoprotein-2; cell surface glycoprotein Trop-1; adenocarcinoma-associated antigen; tumor-associated calcium signal transducer 1; |

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major gastrointestinal tumor-associated protein GA733-2; membrane component, chromosome 4, surface marker (35kD glycoprotein); M4S1; MK-1; DIAR5; EGP-2; MIC18; EGP314; HNPCC8; TACSTD1; GA733-2;

**Gene ID** [4072](#)

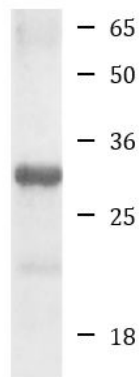
**mRNA Refseq** [NM\\_002354](#)

**Protein Refseq** [NP\\_002345](#)

**MIM** [185535](#)

**UniProt ID** [P16422](#)

#### SDS-PAGE



Human EpCAM  
recombinant protein

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