

# Active Recombinant Human EPCAM, Fc-tagged, Biotinylated

**Cat. No.** EPCAM-571H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | The recombinant human EPCAM-Fc fusion is expressed as a 470 amino acid protein consisting of Gln24 - Lys265 region of EPCAM (UniProt accession #P16422) and a C-terminal Fc from human IgG1, which exists as a dimer under non-reducing conditions. |
| <b>Species</b>          | Human                                                                                                                                                                                                                                               |
| <b>Source</b>           | Human Cells                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | 24-265 a.a.                                                                                                                                                                                                                                         |
| <b>Form</b>             | Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier and preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).                                                                                     |
| <b>Bio-activity</b>     | Binds anti-EPCAM monoclonal antibodies, human IgG1 and rabbit IgG.                                                                                                                                                                                  |
| <b>Molecular Mass</b>   | Calculated molecular mass 53 kDa; estimated by SDS-PAGE under reducing condition 55-60 kDa probably due to glycosylation.                                                                                                                           |
| <b>Endotoxin</b>        | <0.1 eu per 1 µg of purified recombinant protein determined by the                                                                                                                                                                                  |
| <b>Purity</b>           | >95% judged by SDS-PAGE under reducing condition                                                                                                                                                                                                    |
| <b>Storage</b>          | The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below                                                                             |

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–20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

**Conjugation** Biotin

## GENE INFORMATION

**Gene Name** EPCAM epithelial cell adhesion molecule [ Homo sapiens ]

**Official Symbol** EPCAM

**Synonyms** 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; 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

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|--------------------------------|------------------|
| <b>Chromosome<br/>Location</b> | 2p21             |
| <b>Function</b>                | protein binding; |