

# Recombinant Human EPCAM Protein, His\Avi-tagged

**Cat. No.** EPCAM-207H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b> | Biotinylated Recombinant Human Epithelial Cell Adhesion Molecule is produced by our Mammalian expression system and the target gene encoding Gln24-Lys265 is expressed with a 6His, Avitag at the C-terminus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | Human Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Length</b>   | 24-265 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | Epithelial Cell Adhesion Molecule (EpCAM) is a signal type I transmembrane glycoprotein that belongs to the EPCAM family. EpCAM is composed of an extracellular domain with one thyroglobulin type-1 domain, a transmembrane domain and a cytoplasmic domain. EpCAM is found on the surface of adenocarcinoma, but not on mesodermal or neural cell membranes. The EpCAM molecule has been shown to function as a homophilic $Ca^{2+}$ independent adhesion molecule. It may act as a physical homophilic interaction molecule between intestinal epithelial cells (IECs) and intraepithelial lymphocytes (IELs) at the mucosal epithelium as an immunological barrier providing the first line of defense against infection. Defects in EPCAM are a cause of hereditary non-polyposis colorectal cancer type 8 (HNPCC8) and diarrhea type 5 (DIAR5). EpCAM plays a role in embryonic stem cells proliferation and differentiation; it up-regulates the expression of FABP5, MYC and Cyclin A and Cyclin E. It is highly and selectively expressed by undifferentiated embryonic stem cells. |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|--------------------|-----------------------------------------------------------------------------|
| <b>Form</b>        | Lyophilized from a 0.2 um filtered solution of 20mM PB, 150mM NaCl, pH 7.2. |
| <b>AA Sequence</b> | Gln24-Lys265                                                                |
| <b>Endotoxin</b>   | Less than 0.1 ng/ug (1 EU/ug).                                              |
| <b>Shipping</b>    | Ambient                                                                     |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | EPCAM epithelial cell adhesion molecule [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                                               |
| <b>Official Symbol</b> | EPCAM                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>        | Epithelial Cell Adhesion Molecule; Ep-CAM; Adenocarcinoma-Associated Antigen; Cell Surface Glycoprotein Trop-1; Epithelial Cell Surface Antigen; EpithelialGlycoprotein; EGP; Epithelial Glycoprotein 314; hEGP314; KSA; Tumor-Associated Calcium Signal Transducer 1; CD326; ESA; KSA; M4S1; MK-1; DIAR5; EGP-2; EGP40; KS1/4; MIC18; TROP1; BerEp4; EGP314; HNPCC8; MOC-31; Ber-Ep4; TACSTD1 |
| <b>Gene ID</b>         | 4072                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>     | NM_002354.3                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>  | NP_002345.2                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>MIM</b>             | 185535                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>UniProt ID</b>      | P16422                                                                                                                                                                                                                                                                                                                                                                                         |

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