

## Recombinant Human MUC1 Protein, His-tagged

Cat. No. MUC1-212H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human mucin 1, cell surface associated(MUC1) protein, transcript variant 3(NM\_001018017), with a His tag, was expressed in human cells.

**Species** Human

**Source** Human Cells

**Description** This gene encodes a membrane-bound protein that is a member of the mucin family. Mucins are O-glycosylated proteins that play an essential role in forming protective mucous barriers on epithelial surfaces. These proteins also play a role in intracellular signaling. This protein is expressed on the apical surface of epithelial cells that line the mucosal surfaces of many different tissues including lung, breast stomach and pancreas. This protein is proteolytically cleaved into alpha and beta subunits that form a heterodimeric complex. The N-terminal alpha subunit functions in cell-adhesion and the C-terminal beta subunit is involved in cell signaling. Overexpression, aberrant intracellular localization, and changes in glycosylation of this protein have been associated with carcinomas. This gene is known to contain a highly polymorphic variable number tandem repeats (VNTR) domain. Alternate splicing results in multiple transcript variants.

**Form** Purified protein formulated in a sterile solution of TBS buffer, pH7.310, without any preservatives.

**Molecular Mass** 25.1 kDa

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|---------------------|--|
| <b>Endotoxin</b>    | Endotoxin level is < 0.1 ng/g of protein (<1EU /g)   |
| <b>Purity</b>       | >90% by SDS-PAGE gel and Coomassie Blue staining   |
| <b>Applications</b> | Antigens, Western, ELISA and other in vitro binding or in vivo functional assays, and protein-protein interaction studies. |

## GENE INFORMATION

|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | MUC1 mucin 1, cell surface associated [ Homo sapiens ]  |
| <b>Official Symbol</b> | MUC1  |
| <b>Synonyms</b>        | MUC1; mucin 1, cell surface associated; mucin 1, transmembrane , PUM; mucin-1; CD227; PEM; episialin; DF3 antigen; H23 antigen; krebs von den Lungen-6; mucin 1, transmembrane; tumor-associated mucin; carcinoma-associated mucin; polymorphic epithelial mucin; peanut-reactive urinary mucin; tumor associated epithelial mucin; breast carcinoma-associated antigen DF3; tumor-associated epithelial membrane antigen; EMA; PUM; KL-6; MAM6; PEMT; H23AG; MUC-1; MUC-1/X; MUC1/ZD; MUC-1/SEC; |
| <b>Gene ID</b>         | 4582  |
| <b>mRNA Refseq</b>     | NM_001018016  |
| <b>Protein Refseq</b>  | NP_001018016  |
| <b>MIM</b>             | 158340  |
| <b>UniProt ID</b>      | P15941  |

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