

## Recombinant Full length Human mucin 1, cell surface associated Protein, His tagged

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

### SPECIFICATION

#### Product Overview

Purified recombinant protein of Human mucin 1, cell surface associated (MUC1), transcript variant 3, full length, with N-terminal His tag, expressed in E. coli.

#### Species

Human

#### Source

E.coli

#### ProteinLength

1-1255aa

#### 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.

#### Tag

N-His

 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

<b>Molecular Mass</b>	25.1 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Notes</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade.
<b>Storage Buffer</b>	25 mM Tris-HCl, pH 8.0, 150 mM NaCl, 1% sarkosyl, 10% glycerol
<b>Concentration</b>	> 0.05 µg/µL as determined by microplate BCA method

## GENE INFORMATION

<b>Gene Name</b>	MUC1 mucin 1, cell surface associated [ Homo sapiens (human) ]
<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

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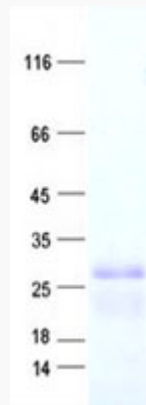
mRNA Refseq [NM\\_001018017](#)

Protein Refseq [NP\\_001018017](#)

MIM [158340](#)

UniProt ID [P15941](#)

SDS-PAGE



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