

## Mucin 1 (MUC1) Recombinant Protein | MUC1 recombinant protein

Recombinant Mucin 1 (MUC1)

|                              |                       |                                           |                                               |
|------------------------------|-----------------------|-------------------------------------------|-----------------------------------------------|
| CATALOG #<br><b>AAA20240</b> | HOST<br><b>E.coli</b> | REACTIVITY<br><b>Homo sapiens (Human)</b> | APPLICATIONS<br><b>SDS-Page, Western Blot</b> |
|------------------------------|-----------------------|-------------------------------------------|-----------------------------------------------|

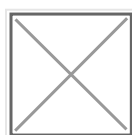
### PRODUCT SYNONYMS

Mucin 1 (MUC1); Recombinant Mucin 1 (MUC1); MUC1 recombinant protein

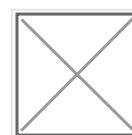
### PRODUCT SPECIFICATIONS

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                 | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Reactivity                                           | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Purity/Purification                                  | > 80%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Form/Format                                          | PBS, pH7.4, containing 0.01% SKL, 5% Trehalose                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Concentration                                        | Original Concentration: 300ug/mL (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Applicable Applications for MUC1 recombinant protein | Positive Control, Immunogen, SDS-PAGE, WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Application Notes                                    | (May be suitable for use in other assays to be determined by the end user.)                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Source                                               | Prokaryotic expression                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Residues                                             | Ser1098~Leu1255                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Tags                                                 | N-terminal His and GST Tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Subcellular Location                                 | Membrane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Traits                                               | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Predicted isoelectric point                          | 6.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Usage                                                | Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Preparation and Storage                              | <p><b>Storage:</b><br/>Avoid repeated freeze/thaw cycles.<br/>Store at 2-8 degree C for one month.<br/>Aliquot and store at -80 degree C for 12 months.</p> <p><b>Stability Test:</b><br/>The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.</p> |

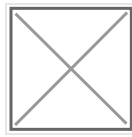
### IMAGES



SDS-PAGE



Gene Sequencing (Extract)



Sequence Information

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 67189007                                                                                                                                                                                                                                                                                                                                                     |
| NCBI GeneID                      | 4582                                                                                                                                                                                                                                                                                                                                                         |
| NCBI Accession #                 | NP_001018016.1                                                                                                                                                                                                                                                                                                                                               |
| NCBI GenBank Nucleotide #        | NM_001018016.2                                                                                                                                                                                                                                                                                                                                               |
| UniProt Accession #              | P15941; P13931; P15942; P17626; Q0VAP5; A5YRV1; A6ZID9; B1AVQ8; B1AVR0; B6ECA1; E7ESE5; E7EUG9                                                                                                                                                                                                                                                               |
| Molecular Weight                 | Predicted Molecular Mass: 49.0kDa<br>Accurate Molecular Mass: 50/40/33/26kDa as determined by SDS-PAGE reducing conditions.                                                                                                                                                                                                                                  |
| NCBI Official Full Name          | mucin-1 isoform 2                                                                                                                                                                                                                                                                                                                                            |
| NCBI Official Synonym Full Names | mucin 1, cell surface associated                                                                                                                                                                                                                                                                                                                             |
| NCBI Official Symbol             | MUC1                                                                                                                                                                                                                                                                                                                                                         |
| NCBI Official Synonym Symbols    | EMA; PEM; PUM; KL-6; MAM6; PEMT; CD227; H23AG; MCKD1; MUC-1; CA 15-3; MUC-1/X; MUC1/ZD; MUC-1/SEC                                                                                                                                                                                                                                                            |
| NCBI Protein Information         | mucin-1; episialin; DF3 antigen; H23 antigen; cancer antigen 15-3; 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 |
| UniProt Protein Name             | Mucin-1                                                                                                                                                                                                                                                                                                                                                      |
| UniProt Gene Name                | <b>MUC1</b>                                                                                                                                                                                                                                                                                                                                                  |
| UniProt Synonym Gene Names       | PUM; MUC-1; CA 15-3; KL-6; PUM; PEM; EMA; MUC1-NT; MUC1-alpha; MUC1-beta                                                                                                                                                                                                                                                                                     |
| UniProt Entry Name               | MUC1_HUMAN                                                                                                                                                                                                                                                                                                                                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/muc1-recombinant-protein-e-coli-positive-control-immunogen-sds-page-wb-western-blot/20240>