

## Recombinant Mouse Muc1 protein, His/GST-tagged

Cat. No. Muc1-106M Lot. No. (See product label)

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Recombinant Mouse Muc1(Ser410~Ala525) fused with His/GST tag at the N-terminus was expressed in E. coli.  |
| <b>Species</b>          | Mouse   |
| <b>Source</b>           | E.coli  |
| <b>ProteinLength</b>    | Ser410~Ala525   |
| <b>Form</b>             | Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.  |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 45.0kDa   |
| <b>AA Sequence</b>      | <p>The target protein is fused with two N-terminal Tags, His-tag and GST-tag, its sequence is listed below.</p> <p>MSPILGYWKI KGLVQPTRLLEYLEEKYEE<br/> HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVKLTSMA IIRYIADKHN<br/> MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFLSKLPEML<br/> KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK<br/> KRIEAIQID KYLKSSKYIA WPLQGQWQATF GGGDHPKSD GSTSGSGHHH<br/> HHHSAGLVPR GSTAIGMKET AAKFERQHM DSPDLGTLEV LFGQPLGSEF- S<br/> PQLSVGVSFF FLSFYIQNHP FNSSLEDPSS NYYQELKRNI SGLFLQIFNG<br/> DFLGISSIKF RSGSVVVEST VVFREGTFSA SDVKSQLIQH KKEADDYNLT<br/> ISEVKVNEMQ FPPSA</p> |
| <b>Endotoxin</b>        | <1.0EU per 1g (determined by the LAL method)  |

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>Purity</b>         | >95%   |
| <b>Applications</b>   | SDS-PAGE; WB; ELISA; IP.   |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months. |
| <b>Reconstitution</b> | Reconstitute in sterile PBS, pH7.2-pH7.4.  |

## GENE INFORMATION

|                            |  |
|----------------------------|--|
| <b>Gene Name</b>           | Muc1 mucin 1, transmembrane [ <i>Mus musculus</i> ]  |
| <b>Official Symbol</b>     | Muc1   |
| <b>Synonyms</b>            | MUC1; mucin 1, transmembrane; mucin-1; episialin; EMA; CD227; Muc-1;   |
| <b>Gene ID</b>             | 17829  |
| <b>mRNA Refseq</b>         | NM_013605  |
| <b>Protein Refseq</b>      | NP_038633  |
| <b>MIM</b>                 |  |
| <b>UniProt ID</b>          | Q02496   |
| <b>Chromosome Location</b> | 3 F1; 3 39.02 cM   |
| <b>Pathway</b>             | IL-7 Signaling Pathway, organism-specific biosystem; T Cell Receptor Signaling Pathway, organism-specific biosystem; |

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**Function**

RNA polymerase II core promoter proximal region sequence-specific DNA binding;  
p53 binding; transcription cofactor activity;

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