

## anti-Human Muc1 Glycoprotein Monoclonal Antibody | anti-Muc1 antibody

MAB to Muc1

|                              |                                           |                            |                                                    |
|------------------------------|-------------------------------------------|----------------------------|----------------------------------------------------|
| CATALOG #<br><b>AAA57954</b> | HOST<br><b>Host: MouseSource: Ascites</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunohistochemistry, ELISA</b> |
|------------------------------|-------------------------------------------|----------------------------|----------------------------------------------------|

### PRODUCT SYNONYMS

Muc1 Glycoprotein; Monoclonal Antibody; MAb to Muc1; anti-Muc1 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| Host                                           | Host: Mouse<br>Source: Ascites                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Reactivity                                     | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Clonality                                      | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Isotype                                        | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Specificity                                    | Muc1 Glycoprotein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Purity/Purification                            | >90% pure (SDS-PAGE). Protein A chromatography                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Form/Format                                    | Purified, Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Concentration                                  | 5.2mg/ml (OD280nm, E <sup>0</sup> 0.1% = 1.4) (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Sequence Length                                | 97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Applicable Applications for anti-Muc1 antibody | IHC (Immunohistochemistry), ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Host Animal                                    | Mouse. Hybridization of X63-Ag8-653 myeloma cells with spleen cells from BALB/c mice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Immunogen                                      | High molecular weight (>300kDa) glycoprotein from human milk-fat globule molecule.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Species Specificity                            | Binds with high efficiency with a region of GVTSAPDTRPAPGSTAPPAHGV TSA synthetic peptide spanning the one repeat of VNTR extracellular portion of MUC1 molecule. Reacts with VNTR5 and VNTR20 recombinant unglycosylated fragments of MUC1 protein and underglycosylated MUC1 prepared from tumor fluids or as a result of chemical treatment of human milk MUC1. Does not recognize natural MUC1 protein isolated from human milk by affinity purification on carbohydrate epitope specific monoclonals and belongs to Monoclonal Cluster 1-4 according to ISOMB TD-4 classification. Does not cross-react with egg white avidin. |
| Affinity Constant                              | >1 x 10 <sup>8</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Buffer                                         | PBS, pH 7.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Preservative                                   | NaN3 (0.1% Sodium azide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Warning                                        | This product contains sodium azide, which has been classified as Xn (Harmful), in European Directive 67/548/EEC in the concentration range of 0.1-1.0%. When disposing of this reagent through lead or copper plumbing, flush with copious volumes of water to prevent azide build-up in drains.                                                                                                                                                                                                                                                                                                                                   |
| Preparation and Storage                        | Store at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

### ADDITIONAL INFORMATION

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|----------------------------------------------------|---------------------------------------------------------------|
| Related Product Information for anti-Muc1 antibody | MAB to MUC1<br>Monoclonal Antibody to Human MUC1 glycoprotein |
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NCBI AND UNIPROT INFORMATION

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| NCBI GI #                        | 4262069                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| NCBI GeneID                      | 4582                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| UniProt Accession #              | P15941; P13931; P15942; P17626; Q14128; Q14876; Q16437; Q16442; Q16615; Q7Z552; Q9BXA4; Q9UE75; Q14877; Q6S4Y3; Q7Z536; Q7Z537; Q7Z538; Q7Z539; Q7Z540; Q7Z541; Q7Z542                                                                                                                                                                                                                                                                                                                                                  |
| Molecular Weight                 | 122,102 Da                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| NCBI Official Full Name          | mucin glycoprotein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 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; MUC-1; MUC-1/X; MUC1/ZD; MUC-1/SEC                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| NCBI Protein Information         | mucin-1; episialin; DF3 antigen; H23 antigen; OTTHUMP00000033786; OTTHUMP00000033787; OTTHUMP00000033788; OTTHUMP00000033789; OTTHUMP00000033790; OTTHUMP00000033791; OTTHUMP00000033792; OTTHUMP00000033793; OTTHUMP00000033794; OTTHUMP00000033795; 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.