

## MUC1

### Mouse Anti-Human Mucin 1 Clone VU-11D1 mAb

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| <b>Catalog No.</b>      | MON6046                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Quantity:</b> | 100 µg |
| <b>Alternate Names:</b> | CD227, EMA, H23AG, MAM6, PEM, PEMT, PUM, DF3 antigen, H23 antigen, MUC-1/SEC, MUC-1/X, MUC1/ZD, breast carcinoma-associated antigen DF3, episialin, mucin 1, mucin 1, transmembrane, peanut-reactive urinary mucin, polymorphic epithelial mucin, tumor associated epithelial mucin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  |        |
| <b>Description:</b>     | <p>VU-11D1 reacts with MUC1, a large transmembrane glycoprotein expressed on the ductal surface of normal glandular epithelia. The extracellular domain of MUC1 largely consists of a highly conserved, O-glycosylated 20 aminoacids tandem repeat which can occur 30-100 times per molecule depending on the length of the allele involved. In the vast majority of human carcinomas this protein is upregulated and poorly glycosylated and appears on the cell surface in a non-polarized fashion. The dominant epitope of mAb VU11D1 is the 7-mer TSAPDTR of the MUC1 tandem repeat as established with "epitope fingerprinting".</p> <p>Source: A Balb/c mouse was immunized with live cells (107 cells/dose in PBS) of human breast cancer cell line ZR-75-1. Splenocytes were fused with SP2/0 mouse myeloma cells. Stability of the hybridomas was established by subcloning four times.</p> |                  |        |
| <b>Concentration:</b>   | 100 ug/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  |        |
| <b>Gene ID:</b>         | 4582                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  |        |
| <b>Host:</b>            | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |        |
| <b>Isotype:</b>         | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  |        |
| <b>Clone:</b>           | VU-11D1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |        |
| <b>Formulation:</b>     | 100 µg purified material in PBS with 0.05% sodium azide. <b>Precaution:</b> Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |        |
| <b>Applications:</b>    | <p>The antibody has been tested on frozen sections of human ovarian carcinoma tissue and in ELISA specifically binds to a BSA conjugated 60mer MUC1 tandem repeat. Immunoreactivity has been demonstrated with parafin sections of normal breast tissue, but very weakly with sections of small intestine and colon.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |        |

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