

## TIMP3

### Mouse Anti-Human Tissue Inhibitor of Metalloproteinase 3 mAb

|                                 |   |                  |        |
|---------------------------------|---|------------------|--------|
| <b>Catalog No.</b>              | CMT152  | <b>Quantity:</b> | 100 µg |
| <b>Alternate Names:</b>         | Tissue Inhibitor of Metalloproteinase 3, K222, SFD  |                  |        |
| <b>Gene ID:</b>                 | 7078  |                  |        |
| <b>Description:</b>             | <p>Mouse Anti-human TIMP-3 monoclonal antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse immunized with purified recombinant human tissue inhibitor of metalloproteinases-3 (TIMP-3). The IgG1 fraction of the tissue culture supernatant was purified by Protein G affinity chromatography.</p> <p>TIMPs-1 through -4 regulate the activity of zinc metalloproteinases known as MMPs, ADAMs and ADAMTSs. Structurally, TIMPs contain two domains. The N-terminal domain binds to the active site of mature metalloproteinases via a 1:1 non-covalent interaction, blocking access of substrates to the catalytic site. In addition, The C-terminal domain of TIMP-1 and TIMP-2 binds to the hemopexin- like domain of pro-MMP-9 and pro-MMP-2, respectively. The latter binding is essential for the cell surface activation of MMP-2 by MMP-14.</p> |                  |        |
| <b>Specificity:</b>             | Recognizes Human TIMP-3   |                  |        |
| <b>Host:</b>                    | Mouse   |                  |        |
| <b>Immunogen:</b>               | Recombinant Human TIMP-3  |                  |        |
| <b>Isotype:</b>                 | IgG1  |                  |        |
| <b>Formulation:</b>             | Lyophilized from a 0.2 µm sterile filtered solution in PBS  |                  |        |
| <b>Purification:</b>            | Protein G affinity chromatography   |                  |        |
| <b>Reconstitution:</b>          | <b>Centrifuge vial prior to opening.</b> Add 500 µl sterile PBS to the vial to fully solubilize the antibody to a concentration of 200 µg/ml.   |                  |        |
| <b>Cross-Reactivity:</b>        | This antibody recognizes human TIMP-3 in Western blot. No cross-reactivity with human TIMP-1, TIMP-2, and TIMP-4  |                  |        |
| <b>Applications:</b>            | Western Blot, Immunohistochemistry (Paraffin).  |                  |        |
| <b>Application Notes:</b>       | <p>For Western Blot, use a working dilution of 1:100-1000.</p> <p>For Immunohistochemistry (Paraffin), use a working dilution of 1:50-200.</p> <p>The optimal concentration should be determined by the user for each specific application.</p>   |                  |        |
| <b>Storage &amp; Stability:</b> | Lyophilized antibody is stable for 2 years at -20°C to -80°C. Reconstituted antibody is stable for six months in working aliquots at -20°C to -80°C. <b>Avoid repeated freeze-thaw cycles.</b>  |                  |        |

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