

**MOUSE ANTI-HUMAN TIMP-1 (TISSUE INHIBITOR OF METALLOPROTEINASE-1)  
MONOCLONAL ANTIBODY**

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| <b>CATALOG NUMBER:</b>     | MAB13429                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>QUANTITY:</b>      | 100 µg           |
| <b>LOT NUMBER:</b>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>CONCENTRATION:</b> | 200 µg/mL        |
| <b>CLONE NAME:</b>         | 102D1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>HOST/ISOTYPE:</b>  | IgG <sub>1</sub> |
| <b>SPECIFICITY:</b>        | It recognizes a glycoprotein of 28.5 kDa which is identified as tissue inhibitor of metalloproteinases-1 (TIMP-1). TIMP-1 and TIMP-2 have similar properties, specifically in inhibiting enzymes of matrix metalloproteinase family, and are thought to be of great importance in the maintenance of connective tissue integrity. TIMP-1 forms a complex of 1:1 stoichiometry with activated interstitial collagenase, activated stromelysin, active form of 72 kDa type IV collagenase (also known as MMP-2 or gelatinase A), and latent and active forms 92 kDa Type IV collagenase (also known as MMP-9 or gelatinase B). TIMPs inhibit the proteolytic invasiveness of tumor cells and normal placental trophoblast cells.<br><i>Cellular Localization: Cytoplasmic</i> |                       |                  |
| <b>APPLICATIONS:</b>       | Western Blotting: 1-2 µg/mL for 2 hours at room temperature<br>Immunohistochemistry: Formalin-fixed, paraffin-embedded tissues: 1-2 µg/mL for 30 min. at room temperature.<br><i>Optimal working dilutions must be determined by end user.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                  |
| <b>SPECIES REACTIVITY:</b> | Reacts with Human. Reactivity with other species has not been determined.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       |                  |
| <b>IMMUNOGEN:</b>          | Recombinant human TIMP-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                  |
| <b>POSITIVE CONTROL:</b>   | Bladder, breast or ovarian carcinoma.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |                  |
| <b>FORMAT:</b>             | Purified from ascites fluid by Protein G chromatography.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                  |
| <b>PRESENTATION:</b>       | Liquid in 10 mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |                  |
| <b>STORAGE/HANDLING:</b>   | Maintain at 2-8°C in undiluted aliquots for up to 12 months.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                  |
| <b>REFERENCES:</b>         | Hurskainen, T et al. (1996). <i>Journal of Histochemistry and Cytochemistry</i> <b>44(12)</b> : 1379-1388.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                  |

*For research use only; not for use as a diagnostic.*

**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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