



# Anti-TIMP3 monoclonal antibody, clone 294662 (DCABY-4089)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Antigen Description</b> | TIMPs-1 through -4 regulate the activity of zinc metalloproteases known as MMPs, ADAMs and ADAMTSs. Structurally, TIMPs contain two domains. The N-terminal domain binds to the active site of mature metalloproteases 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. |
| <b>Specificity</b>         | Detects human TIMP-3 in ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human TIMP-1, -2, or -4 is observed.                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Immunogen</b>           | Mouse myeloma cell line NS0-derived recombinant human TIMP-3. Cys24-Pro211 Accession Number P35625                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Isotype</b>             | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source/Host</b>         | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species Reactivity</b>  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Clone</b>               | 294662                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Purification</b>        | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Conjugate</b>           | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Applications</b>        | Western Blot, Immunohistochemistry, Immunoprecipitation, ELISA Capture (Matched Pair)                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Format</b>              | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Size</b>                | 500 µg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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| <b>Buffer</b>       | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.                                                                                                                                                                                                               |
| <b>Preservative</b> | None                                                                                                                                                                                                                                                                             |
| <b>Storage</b>      | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.<br>12 months from date of receipt, -20 to -70 °C as supplied.<br>1 month, 2 to 8 °C under sterile conditions after reconstitution.<br>6 months, -20 to -70 °C under sterile conditions after reconstitution. |

## GENE INFORMATION

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| <b>Gene Name</b>           | <a href="#">TIMP3 TIMP metallopeptidase inhibitor 3 [ Homo sapiens (human) ]</a>                                                                                                       |
| <b>Official Symbol</b>     | TIMP3                                                                                                                                                                                  |
| <b>Synonyms</b>            | TIMP3; TIMP metallopeptidase inhibitor 3; SFD; K222; K222TA2; HSMRK222; metalloproteinase inhibitor 3; TIMP-3; MIG-5 protein; protein MIG-5; tissue inhibitor of metalloproteinases 3; |
| <b>Entrez Gene ID</b>      | <a href="#">7078</a>                                                                                                                                                                   |
| <b>Protein Refseq</b>      | <a href="#">NP_000353</a>                                                                                                                                                              |
| <b>UniProt ID</b>          | <a href="#">P35625</a>                                                                                                                                                                 |
| <b>Chromosome Location</b> | 22q12.3                                                                                                                                                                                |
| <b>Pathway</b>             | Angiogenesis; Endochondral Ossification; Matrix Metalloproteinases; MicroRNAs in cancer; Oncostatin M Signaling Pathway; Proteoglycans in cancer;                                      |
| <b>Function</b>            | metal ion binding; metalloendopeptidase inhibitor activity; protein binding;                                                                                                           |