

## DESCRIPTION

|                           |   |
|---------------------------|---|
| <b>Species Reactivity</b> | Human   |
| <b>Specificity</b>        | Detects human TIMP-2 in ELISAs and Western blots. In sandwich immunoassays, less than 0.1% cross-reactivity with recombinant human (rh) TIMP-1, recombinant rat TIMP-1, recombinant mouse TIMP-1, and rhTIMP-3 is observed. |
| <b>Source</b>             | Polyclonal Goat IgG   |
| <b>Purification</b>       | Antigen Affinity-purified   |
| <b>Immunogen</b>          | Chinese hamster ovary cell line CHO-derived recombinant human TIMP-2 (R&D Systems, Catalog # 971-TM)<br>Cys27-Pro220<br>Accession # P16035  |
| <b>Formulation</b>        | Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.  |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

|  | <b>Recommended Concentration</b> | <b>Sample</b>  |
|--|----------------------------------|--|
| <b>Western Blot</b>                      | 0.1 µg/mL                        | Recombinant Human TIMP-2 Western Blot Standard (Catalog # 971-TM)                                    |
| <b>Human TIMP-2 Sandwich Immunoassay</b> |                                  | <b>Reagent</b>   |
| <b>ELISA Capture</b>                     | 2-8 µg/mL                        | Human TIMP-2 Antibody (Catalog # MAB9711)  |
| <b>ELISA Detection Standard</b>          | 0.1-0.4 µg/mL                    | Human TIMP-2 Biotinylated Antibody (Catalog # BAF971)<br>Recombinant Human TIMP-2 (Catalog # 971-TM) |

## PREPARATION AND STORAGE

|                                |   |
|--------------------------------|---|
| <b>Reconstitution</b>          | Reconstitute at 0.2 mg/mL in sterile PBS.   |
| <b>Shipping</b>                | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.   |
| <b>Stability &amp; Storage</b> | <p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul> |

## BACKGROUND

Tissue inhibitors of metalloproteinases or TIMPs are a family of proteins that regulate the activation and proteolytic activity of the zinc enzymes known as matrix metalloproteinases (MMPs). There are four members of the family, TIMP-1, TIMP-2, TIMP-3, and TIMP-4. TIMP-2 is a non N-glycosylated protein with a molecular mass of 22 kDa produced by a wide range of cell types, which inhibits MMPs non-covalently by the formation of binary complexes. TIMP-2 also has erythroid-potentiating and cell growth promoting activities.