

## Product datasheet for **AP20274PU-M**

### **TIMP1 Rabbit Polyclonal Antibody**

#### **Product data:**

|                         |                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:           | Primary Antibodies                                                                                                                              |
| Applications:           | WB                                                                                                                                              |
| Recommended Dilution:   | <b>Western blot:</b> 1/500-1/1000.                                                                                                              |
| Reactivity:             | Human, Mouse, Rat                                                                                                                               |
| Host:                   | Rabbit                                                                                                                                          |
| Clonality:              | Polyclonal                                                                                                                                      |
| Specificity:            | This antibody detects endogenous levels of TIMP-1 protein.                                                                                      |
| Formulation:            | Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2<br>State: Aff - Purified<br>State: Liquid purified Ig fraction          |
| Concentration:          | 1.0 mg/ml                                                                                                                                       |
| Purification:           | Affinity-chromatography using epitope-specific immunogen; purity is > 95% (by SDS-PAGE)                                                         |
| Conjugation:            | Unconjugated                                                                                                                                    |
| Storage:                | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing.                            |
| Stability:              | Shelf life: one year from despatch.                                                                                                             |
| Predicted Protein Size: | ~ 24 kDa                                                                                                                                        |
| Gene Name:              | TIMP metalloproteinase inhibitor 1                                                                                                              |
| Database Link:          | <a href="#">Entrez Gene 21857 Mouse</a> <a href="#">Entrez Gene 116510 Rat</a> <a href="#">Entrez Gene 7076 Human</a><br><a href="#">P01033</a> |



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**Background:**

TIMP-1, TIMP-2, TIMP-3 and TIMP-4 (for tissue inhibitor of metalloproteinases- 1, -2, -3 and -4) complex with metalloproteinases such as collagenases, gelatinases and stromelysins, resulting in irreversible inactivation of the metalloproteinase. TIMP-1 was found to be identical to EPA (erythroid-potential activity). Parathyroid hormone has been shown to be a regulator of TIMP-2 in osteoblastic cells. TIMP-3 may be involved in regulating trophoblastic invasion of the uterus as well as in regulating remodeling of the extracellular matrix during the folding of epithelia and in the formation, branching and expansion of epithelial tubes. TIMP-4 is most highly expressed in heart and low levels of TIMP-4 are expressed in liver, brain, lung, thymus and spleen.

**Synonyms:**

TIMP-1, TIMP, Tissue inhibitor of metalloproteinases, Metalloproteinase inhibitor 1, EPA, CLGI

**Protein Families:**

Druggable Genome, Secreted Protein

**Product images:**


Western blot analysis of TIMP-1 antibody (AP20274PU-N) in extracts from 293 cells.