

## Rabbit anti-Mouse TIMP-1 Polyclonal Antibody | anti-TIMP-1 antibody

Anti-TIMP-1 Antibody, Rabbit Polyclonal

|                               |                       |                            |                                             |
|-------------------------------|-----------------------|----------------------------|---------------------------------------------|
| CATALOG #<br><b>AAA258871</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Mouse</b> | APPLICATIONS<br><b>Immunohistochemistry</b> |
|-------------------------------|-----------------------|----------------------------|---------------------------------------------|

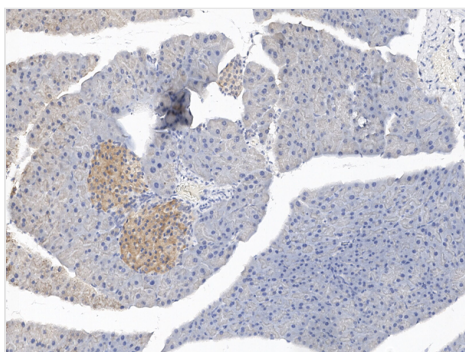
### PRODUCT SYNONYMS

TIMP-1; Polyclonal Antibody; Anti-TIMP-1 Antibody; Rabbit Polyclonal; TIMP metalloproteinase inhibitor 1; Anti-Clg1 Antibody; Anti-EPA Antibody; Anti-Timp Antibody; Anti-TPA-S1 Antibody; anti-TIMP-1 antibody

### PRODUCT SPECIFICATIONS

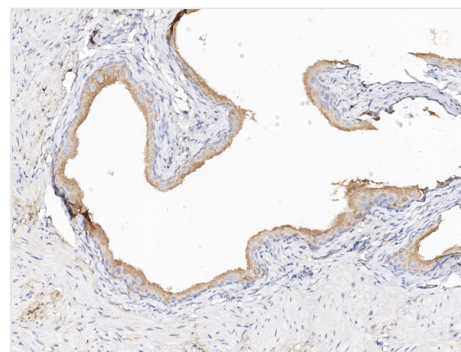
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|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                                                                                                                                |
| Reactivity                                       | Mouse                                                                                                                                                                                                                                                                 |
| Clonality                                        | Polyclonal                                                                                                                                                                                                                                                            |
| Isotype                                          | Rabbit IgG                                                                                                                                                                                                                                                            |
| Specificity                                      | Mouse TIMP-1                                                                                                                                                                                                                                                          |
| Purity/Purification                              | Protein A & Antigen Affinity                                                                                                                                                                                                                                          |
| Form/Format                                      | Liquid; 0.2um filtered solution in PBS                                                                                                                                                                                                                                |
| Applicable Applications for anti-TIMP-1 antibody | IHC (Immunohistochemistry)                                                                                                                                                                                                                                            |
| Immunogen                                        | A synthetic peptide corresponding to the center region of the Mouse TIMP-1                                                                                                                                                                                            |
| Preparation                                      | Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Mouse TIMP-1, and purified by antigen affinity chromatography.                                                                                                       |
| Preparation and Storage                          | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. |

### IMAGES



#### IHC (Immunohistochemistry)

Immunochemical staining of Mouse TIMP1 in Mouse pancreas with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



#### IHC (Immunohistochemistry)

Immunochemical staining of Mouse TIMP1 in Mouse prostate with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

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|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-TIMP-1 antibody | <p>TIMP metalloproteinase inhibitor 1, also known as TIMP-1/TIMP1, Collagenase inhibitor 16C8 fibroblast Erythroid-potentiating activity, TPA-S1TPA-induced proteinTissue inhibitor of metalloproteinases 1, is a natural inhibitors of the matrix metalloproteinases (MMPs), a group of peptidases involved in degradation of the extracellular matrix. TIMP-1/TIMP1 is found in fetal and adult tissues. Highest levels are found in bone, lung, ovary and uterus. Complexes with metalloproteinases and irreversibly inactivates them by binding to their catalytic zinc cofactor. TIMP-1/TIMP1 mediates erythropoiesis in vitro; but, unlike IL-3, it is species-specific, stimulating the growth and differentiation of only human and murine erythroid progenitors. In addition to its inhibitory role against most of the known MMPs, the protein is able to promote cell proliferation in a wide range of cell types, and may also have an anti-apoptotic function. Transcription of this protein encoding gene is highly inducible in response to many cytokines and hormones. In addition, the expression from some but not all inactive X chromosomes suggests that this gene inactivation is polymorphic in human females. This encoding gene is located within intron 6 of the synapsin I gene and is transcribed in the opposite direction. Complexes with metalloproteinases and irreversibly inactivates them by binding to their catalytic zinc cofactor. TIMP-1/TIMP1 is Known to act on MMP-1, MMP-2, MMP-3, MMP-7, MMP-8, MMP-9, MMP-10, MMP-11, MMP-12, MMP-13 and MMP-16.</p> |
| References                                           | <p>Hornebeck W (2004). Down-regulation of tissue inhibitor of matrix metalloprotease-1 (TIMP-1) in aged human skin contributes to matrix degradation and impaired cell growth and survival.. Pathol. Biol. 51 (10): 569-73.Soini Y, et al. (2001) Expression of MMP2, MMP9, MT1-MMP, TIMP-1, and TIMP2 mRNA in valvular lesions of the heart. J Pathol. 194(2):225-31.Wang X, et al. (1999) Analysis of coding sequences for tissue inhibitor of metalloproteinases 1 (TIMP-1) and 2 (TIMP2) in patients with aneurysms. Matrix Biol. 18(2):121-4.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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