

**Anti-TIMP-1 Antibody**  
Catalog # ABO10710**Specification**

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**Anti-TIMP-1 Antibody - Product Information**

Application	<b>WB, IHC</b>
Primary Accession	<a href="#">P01033</a>
Host	<b>Rabbit</b>
Reactivity	<b>Human</b>
Clonality	<b>Polyclonal</b>
Format	<b>Lyophilized</b>

**Description**

Rabbit IgG polyclonal antibody for Metalloproteinase inhibitor 1(TIMP1) detection. Tested with WB, IHC-P in Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-TIMP-1 Antibody - Additional Information**

**Gene ID** 7076

**Other Names**

Metalloproteinase inhibitor 1, Erythroid-potentiating activity, EPA, Fibroblast collagenase inhibitor, Collagenase inhibitor, Tissue inhibitor of metalloproteinases 1, TIMP-1, TIMP1, CLGI, TIMP

**Calculated MW**

23171 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat<br><br>Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Secreted .

**Tissue Specificity**

Detected in rheumatoid synovial fluid (at protein level). .

**Protein Name**

Metalloproteinase inhibitor 1

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human TIMP-1(189-207aa CLPREPGLCTWQSLRSQIA).

### Purification

Immunogen affinity purified.

### Cross Reactivity

No cross reactivity with other proteins

### Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

### Sequence Similarities

Belongs to the protease inhibitor I35 (TIMP) family.

## Anti-TIMP-1 Antibody - Protein Information

**Name** TIMP1

**Synonyms** CLGI, TIMP

### Function

Metalloproteinase inhibitor that functions by forming one to one complexes with target metalloproteinases, such as collagenases, and irreversibly inactivates them by binding to their catalytic zinc cofactor. Acts on MMP1, MMP2, MMP3, MMP7, MMP8, MMP9, MMP10, MMP11, MMP12, MMP13 and MMP16. Does not act on MMP14. Also functions as a growth factor that regulates cell differentiation, migration and cell death and activates cellular signaling cascades via CD63 and ITGB1. Plays a role in integrin signaling. Mediates erythropoiesis in vitro; but, unlike IL3, it is species-specific, stimulating the growth and differentiation of only human and murine erythroid progenitors.

### Cellular Location

Secreted

### Tissue Location

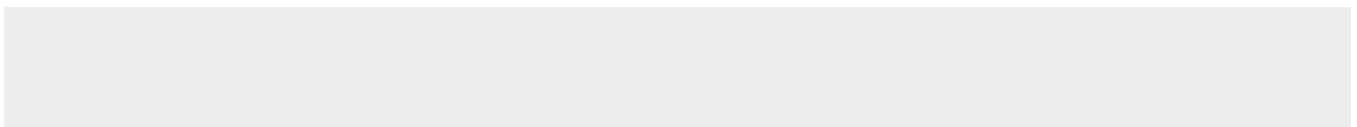
Detected in rheumatoid synovial fluid (at protein level).

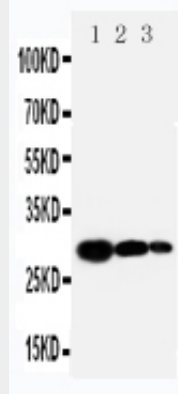
## Anti-TIMP-1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

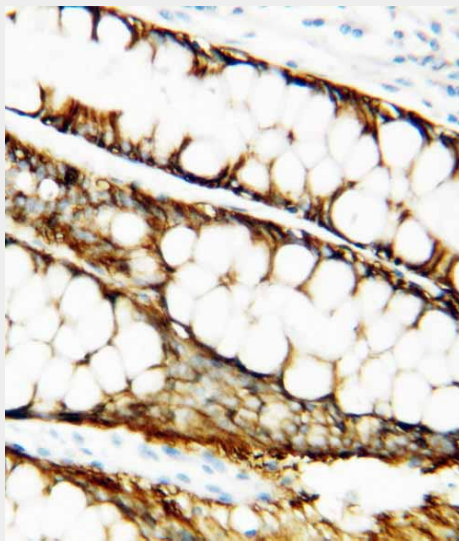
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-TIMP-1 Antibody - Images





Anti-TIMP-1 antibody, ABO10710, Western blotting  
Lane 1: Recombinant Human TIMP-1 Protein 10ng  
Lane 2: Recombinant Human TIMP-1 Protein 5ng  
Lane 3: Recombinant Human TIMP-1 Protein 2.5ng



Anti-TIMP-1 antibody, ABO10710, IHC(P)IHC(P): Human Mammary Cancer Tissue

### **Anti-TIMP-1 Antibody - Background**

TIMP metalloproteinase inhibitor 1, also known as TIMP1, a tissue inhibitor of metalloproteinases, is a glycoprotein that is expressed from the several tissues of organisms. This protein a member of the TIMP family. The glycoprotein is a natural inhibitor of the matrix metalloproteinases(MMPs), a group of peptidases involved in degradation of the extracellular matrix. In addition to its inhibitory role against most of the known MMPs, the encoded 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 gene is highly inducible in response to many cytokines and hormones. TIMP was found to be located about 22 cM proximal to OTC(300461).