10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-TIMP-1 Antibody
Catalog # ABO10710

Specification

Anti-TIMP-1 Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	P01033
Host	**Rabbit**
Reactivity	**Human**
Clonality	**Polyclonal**
Format	**Lyophilized**

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

Western blot, 0.1-0.5 µg/ml, Human

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 Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

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 r˚Constitution, 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).

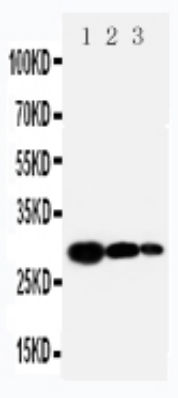
Anti-TIMP-1 Antibody - Protocols

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

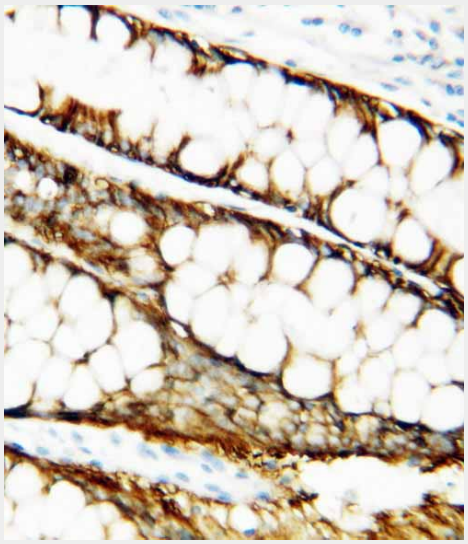
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-TIMP-1 Antibody - Images

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Anti-TIMP-1 antibody, ABO10710, Western blottingLane 1: Recombinant Human TIMP-1 Protein 10ngLane 2: Recombinant Human TIMP-1 Protein 5ngLane 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 metallopeptidase 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).