

**TIMP1 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP6709a****Specification****TIMP1 Antibody (N-term) Blocking Peptide -  
Product Information**

Primary Accession [P01033](#)  
Other Accession [NP\\_003245](#)

**TIMP1 Antibody (N-term) Blocking Peptide -  
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

**Target/Specificity**

The synthetic peptide sequence used to  
generate the antibody [AP6709a](/products/AP6709a)  
was selected from the N-term region of  
human TIMP1. A 10 to 100 fold molar  
excess to antibody is recommended.  
Precise conditions should be optimized for a  
particular assay.

**Format**

Peptides are lyophilized in a solid powder  
format. Peptides can be reconstituted in  
solution using the appropriate buffer as  
needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6  
months. For long term storage store at  
-20°C.

**Precautions**

This product is for research use only. Not  
for use in diagnostic or therapeutic  
procedures.

**TIMP1 Antibody (N-term) Blocking Peptide -****TIMP1 Antibody (N-term) Blocking Peptide  
- Background**

TIMP1 belongs to the TIMP family. The proteins  
in this family are natural inhibitors 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  
protein is able to promote cell proliferation in a  
wide range of cell types, and may also have an  
anti-apoptotic function.

**TIMP1 Antibody (N-term) Blocking Peptide  
- References**

Safraneck,J., Anticancer Res. 29 (7), 2513-2517  
(2009)Onal,I.K., Eur. J. Intern. Med. 20 (4),  
369-372 (2009)Okamura,H., Int. J. Oncol. 35  
(1), 181-186 (2009)

**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).

**TIMP1 Antibody (N-term) Blocking Peptide  
- Protocols**

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

- [Blocking Peptides](#)