

## ARG56830 anti-TIMP1 antibody (Biotin)

Package: 50 µg  
Store at: 4°C

### Summary

Product Description	Biotin-conjugated Rabbit Polyclonal antibody recognizes TIMP1
Tested Reactivity	Hu
Tested Application	ELISA, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	TIMP1
Species	Human
Immunogen	E.coli derived Recombinant Human TIMP-1. (CTCVPPHPQT AFCNSDLVIR AKFVGTPEVN QTTLYQRYEI KMTKMYKGFQ ALGDAADIRF VYTPAMESVC GYFHRSHNRS EEFLIAGKLQ DGLLHITCS FVAPWNSLSL AQRRGFTKY TVGCEECTVF PCLSIPCKLQ SGTHCLWTDQ LLQGSEKGFQ SRHLACLPRE PGLCTWQSLR SQIA)
Conjugation	Biotin
Alternate Names	Erythroid-potentiating activity; TIMP; Collagenase inhibitor; Fibroblast collagenase inhibitor; TIMP-1; EPO; CLGI; Tissue inhibitor of metalloproteinases 1; HCl; Metalloproteinase inhibitor 1; EPA

### Application Instructions

Application table	Application	Dilution
	ELISA	Direct: 0.25 - 1.0 µg/ml Sandwich: 0.25 - 1.0 µg/ml with ARG56720 as a capture antibody
	WB	0.1 - 0.2 µg/ml

**Application Note** \* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

### Properties

Form	Liquid
Purification	Purified by affinity chromatography.
Buffer	PBS (pH 7.2)
Concentration	1 mg/ml
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Database links [GeneID: 7076 Human](#)

[Swiss-port # P01033 Human](#)

Gene Symbol TIMP1

Gene Full Name TIMP metalloproteinase inhibitor 1

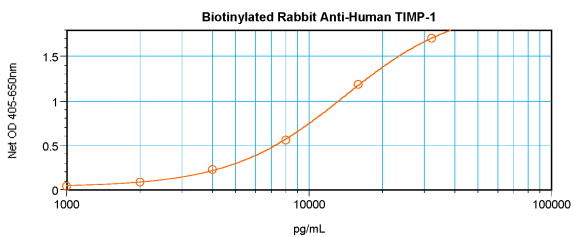
**Background** This gene belongs to the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases (MMPs), a group of peptidases involved in degradation of the extracellular matrix. In addition to its inhibitory role against most of the known MMPs, the 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. In addition, the expression from some but not all inactive X chromosomes suggests that this gene inactivation is polymorphic in human females. This gene is located within intron 6 of the synapsin I gene and is transcribed in the opposite direction. [provided by RefSeq, Jul 2008]

**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. [UniProt]

Calculated Mw 23 kDa

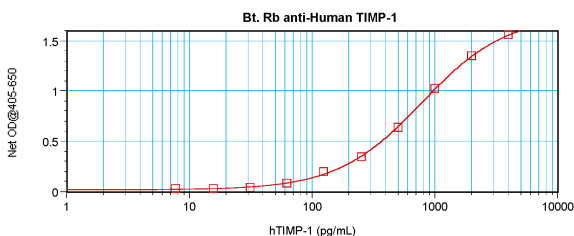
**PTM** The activity of TIMP1 is dependent on the presence of disulfide bonds. N-glycosylated.

Images



ARG56830 anti-TIMP1 antibody (Biotin) standard curve image

Direct ELISA: ARG56830 anti-TIMP1 antibody (Biotin) at 0.25 - 1.0 µg/ml results of a typical standard run with optical density.



ARG56830 anti-TIMP1 antibody (Biotin) standard curve image

Sandwich ELISA: ARG56830 anti-TIMP1 antibody (Biotin) as a detection antibody at 0.25 - 1.0 µg/ml combined with ARG56720 anti-TIMP-1 antibody as a capture antibody. Results of a typical standard run with optical density.