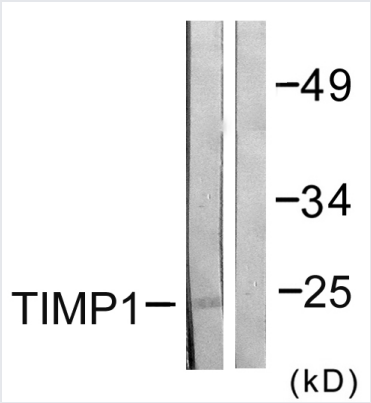
TIMP1 Antibody

PRODUCT OVERVIEW

Product Name	TIMP1, Antibody
Full Product Name	TIMP1 Antibody
Product Gene Name	anti-TIMP1 antibody
Product Synonym Names	tissue inhibitor of metalloproteinase 1
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	TIMP1 antibody detects endogenous levels of total TIMP1 protein.
Preparation and Storage	Store at-20 degree C for 1 year.
Molecular Weight	23,171 Da
OMIM	305370
3D Structure	ModBase 3D Structure for P01033
Immunogen	The antiserum was produced against synthesized peptide derived from internal of human TIMP1.
Product Categories/Family for anti-TIMP1 antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TIMP1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-TIMP1 antibody	WB: 1:500-1:1000 ELISA: 1:10000
Related Product Information for anti-TIMP1 antibody	MBS854910 is an antibody targeting TIMP1. Also known as TIMP1 Antibody. Reactive in Human, Mouse, Rat.
Product References and Citations for anti-TIMP1 antibody	Anieta M. Sieuwerts, Clin. Chem., May 2007; 10.1373. KM Fong, Clin. Cancer Res., Aug 1996; 2: 1369. E. Susol, Rheumatology, Dec 2000; 39: 1332-1336. Christopher J Jackson, Ann Rheum Dis, Mar 1998; 57: 158-161.
Other Notes	Small volumes of anti-TIMP1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-TIMP1 antibody
Western blot analysis of extracts from 293 cells, using TIMP1 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TIMP1. It may not necessarily be applicable to this product.

NCBI GI #	4507509
NCBI GeneID	7076
NCBI Accession #	NP_003245.1
UniProt Primary Accession #	P01033
UniProt Secondary Accession #	Q14252; Q9UCU1
UniProt Related Accession #	P01033
GenBank Nucleotide #	NM_003254.2
NCBI Official Full Name	metalloproteinase inhibitor 1
NCBI Official Synonym Full Names	TIMP metallopeptidase inhibitor 1
NCBI Official Symbol	TIMP1
NCBI Official Synonym Symbols	EPA; EPO; HCI; CLGI; TIMP; TIMP-1
UniProt Protein Name	Metalloproteinase inhibitor 1
UniProt Synonym Protein Names	Erythroid-potentiating activity; EPA; Fibroblast collagenase inhibitor; Collagenase inhibitor; Tissue inhibitor of metalloproteinases 1; TIMP-1
Protein Family	Metalloproteinase inhibitor
UniProt Gene Name	TIMP1
UniProt Synonym Gene Names	CLGI; TIMP; EPA; Collagenase inhibitor; TIMP-1
NCBI Protein Information	metalloproteinase inhibitor 1
NCBI Summary for TIMP1	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]

UniProt Comments for TIMP1	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.
Research Articles on TIMP1	**1.** corticosteroid-resistant patients have higher basal MMP-9 levels and produce more MMP-9 levels in response to IL-1beta.
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