TIMP-1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TIMP-1, Polyclonal Antibody
Full Product Name	TIMP-1 (Tissue Inhibitor of Metalloproteinase-1, CLGI, TIMP, TIMP1) (MaxLight 650)
Product Gene Name	anti-TIMP-1 antibody
Product Synonym Gene Name	TIMP1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. Labeled with MaxLight650.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human TIMP-1.
Preparation and Storage	May be stored at -20 degree C. Stable for 12 months after receipt at -20 degree C. Reconstitute with sterile ddH2O. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Reconstituted product is stable for 12 months at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.
Molecular Weight	23,171 Da
Chromosome Location	Chromosome: X; NC_000023.10 (47441690..47446190). Location: Xp11.3-p11.23
OMIM	305370
3D Structure	ModBase 3D Structure for P01033
Immunogen	Recombinant protein corresponding to human TIMP-1.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-TIMP-1 antibody	Antibodies; Matrix Metalloproteinases
Applications Tested/Suitable for anti-TIMP-1 antibody	Immunohistochemistry (IHC) Paraffin, FLISA, Western Blot (WB), Functional Assay
Application Notes for anti-TIMP-1 antibody	IHC-P: requires enzyme mediated antigen retrieval prior to staining of parrafin sections. Proteinase K is recomended for this purpose. FLISA: 0.5-2.0ug/ml WB: 0.1-0.2ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-TIMP-1 antibody	MBS6444487 is an antibody targeting TIMP-1. Also known as TIMP-1 (Tissue Inhibitor of Metalloproteinase-1, CLGI, TIMP, TIMP1) (MaxLight 650). Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-TIMP-1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TIMP-1. 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
UniProt Protein Name	Metalloproteinase inhibitor 1
UniProt Synonym Protein Names	Erythroid-potentiating activity; EPA; Fibroblast collagenase inhibitor; Collagenase inhibitor; Tissue inhibitor of metalloproteinases 1
Protein Family	Metalloproteinase inhibitor
UniProt Gene Name	TIMP1
UniProt Synonym Gene Names	CLGI; TIMP; EPA; Collagenase inhibitor; TIMP-1
UniProt Entry Name	TIMP1_HUMAN
NCBI Protein Information	metalloproteinase inhibitor 1; TIMP-1; collagenase inhibitor; erythroid potentiating activity; erythroid-potentiating activity; fibroblast collagenase inhibitor; tissue inhibitor of metalloproteinases 1
NCBI Summary for TIMP-1	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 TIMP-1	TIMP1: Complexes with metalloproteinases (such as collagenases) and irreversibly inactivates them by binding to their catalytic zinc cofactor. Also mediates erythropoiesis in vitro; but, unlike IL-3, it is species-specific, stimulating the growth and differentiation of only human and murine erythroid progenitors. Known to act on MMP-1, MMP-2, MMP-3, MMP-7, MMP-8, MMP-9, MMP-10, MMP-11, MMP-12, MMP-13 and MMP-16. Does not act on MMP-14. Belongs to the protease inhibitor I35 (TIMP) family. Protein type: Secreted, signal peptide; Secreted; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: Xp11.3-p11.23 Cellular Component: proteinaceous extracellular matrix; extracellular space; extracellular region; basement membrane Molecular Function: metalloendopeptidase inhibitor activity; protein binding; protease binding; growth factor activity; metal ion binding; cytokine activity Biological Process: response to peptide hormone stimulus; platelet activation; negative regulation of metalloenzyme activity; extracellular matrix organization and biogenesis; response to hormone stimulus; negative regulation of membrane protein ectodomain proteolysis; extracellular matrix disassembly; platelet degranulation; response to cytokine stimulus; positive regulation of cell proliferation; blood coagulation; aging; negative regulation of apoptosis
Research Articles on TIMP-1	**1.** The aim of our study was to compare the immunohistochemical expression of TIMP1 and TIMP2 between an uncontrollably invasive phenomenon (cancer) and an "in situ" process (trophoblast invasion)
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