TIMP1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	TIMP1, Monoclonal Antibody
Full Product Name	Mouse anti-TIMP1 Antibody
Product Gene Name	anti-TIMP1 antibody
Product Synonym Names	CLGI; TIMP; Metalloproteinase inhibitor 1; Erythroid-potentiating activity; EPA; Fibroblast collagenase inhibitor; Collagenase inhibitor; Tissue inhibitor of metalloproteinases 1; TIMP-1
Clonality	Monoclonal
Isotype	Mouse IgG1
Host	Mouse
Species Reactivity	Human
Form/Format	Mouse IgG1. Liquid in PBS containing 50% glycerol, 0.2% BSA and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Concentration	1mg/mL (lot specific)
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
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	KLH-conjugated synthetic peptide encompassing a sequence within human TIMP1. The exact sequence is proprietary.
Product Categories/Family for anti-TIMP1 antibody	Primary antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-TIMP1 antibody	Immunohistochemistry (IHC)
Application Notes for anti-TIMP1 antibody	IHC: 1:100-1:300
Related Product Information for anti-TIMP1 antibody	MBS4514205 is an antibody targeting TIMP1. Also known as Mouse anti-TIMP1 Antibody. Reactive in Human. Host: Mouse.
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.

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
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 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	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 TIMP1	**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)

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/monoclonal-human-antibody/timp1/4514205