TIMP2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TIMP2, Polyclonal Antibody
Full Product Name	TIMP2 (Tissue Inhibitor of Metalloproteinases 2, TIMP-2, Metalloproteinase Inhibitor 2, CSC-21K, DDC8) (MaxLight 750)
Product Gene Name	anti-TIMP2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human TIMP2. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo centrifuge the original vial prior to removing the cap.
Molecular Weight	24,399 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (76849059..76921472, complement). Location: 17q25
OMIM	188825
3D Structure	ModBase 3D Structure for P16035
Immunogen	Full length human TIMP2, aa1-220 (NP_003246.1).
Immunogen Sequence	MGAAARTLRLALGLLLLATLLRPADACSCSPVHPQQAFCNADVVIRAKAVSEKEVDSGNDIYGNPIKRIQYEIKQIKMFKGPEKDIEFIYTAPSSAVCGVSLD
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-TIMP2 antibody	Antibodies; Matrix Metalloproteinases
Applications Tested/Suitable for anti-TIMP2 antibody	Western Blot (WB)
Application Notes for anti-TIMP2 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-TIMP2 antibody	MaxLight750 is a new Near IR stable dye conjugate comparable to DyLight750, Alexa Fluor700 and offers better labeling efficiency, brighter imaging ar
Other Notes	Small volumes of anti-TIMP2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess may apply.
Searchable Terms for TIMP2 purchase	MBS6396575 is an antibody targeting TIMP2. Also known as TIMP2 (Tissue Inhibitor of Metalloproteinases 2, TIMP-2, Metalloproteinase Inhibitor 2, CS

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TIMP2. It may not necessarily be applicable to this product.

NCBI GI #	4507511
NCBI GeneID	7077
NCBI Accession #	NP_003246.1
UniProt Primary Accession #	P16035
UniProt Secondary Accession #	Q16121; Q93006; Q9UDF7
UniProt Related Accession #	P16035; Q96MC4
GenBank Nucleotide #	NM_003255
NCBI Official Full Name	metalloproteinase inhibitor 2
NCBI Official Synonym Full Names	TIMP metallopeptidase inhibitor 2
NCBI Official Symbol	TIMP2
NCBI Official Synonym Symbols	DDC8; CSC-21K
UniProt Protein Name	Metalloproteinase inhibitor 2
UniProt Synonym Protein Names	CSC-21K; Tissue inhibitor of metalloproteinases 2
Protein Family	Metalloproteinase inhibitor
UniProt Gene Name	TIMP2
UniProt Synonym Gene Names	TIMP-2
UniProt Entry Name	TIMP2_HUMAN
NCBI Protein Information	metalloproteinase inhibitor 2; TIMP-2; tissue inhibitor of metalloproteinase 2; tissue inhibitor of metalloproteinases 2
NCBI Summary for TIMP2	This gene is a member of the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix. In addition to an inhibitory role against metalloproteinases, the encoded protein has a unique role among TIMP family members in its ability to directly suppress the proliferation of endothelial cells. As a result, the encoded protein may be critical to the maintenance of tissue homeostasis by suppressing the proliferation of quiescent tissues in response to angiogenic factors, and by inhibiting protease activity in tissues undergoing remodelling of the extracellular matrix. [provided by RefSeq, Jul 2008]

UniProt Comments for TIMP2	TIMP2: Complexes with metalloproteinases (such as collagenases) and irreversibly inactivates them by binding to their catalytic zinc cofactor. Known to act on MMP-1, MMP-2, MMP-3, MMP-7, MMP-8, MMP-9, MMP-10, MMP-13, MMP-14, MMP-15, MMP-16 and MMP-19. Interacts (via the C-terminal) with MMP2 (via the C- terminal PEX domain); the interaction inhibits the MMP2 activity. Down-regulated by TGFB1. Belongs to the protease inhibitor I35 (TIMP) family. Protein type: Extracellular matrix; Inhibitor; Secreted; Motility/polarity/chemotaxis; Cell development/differentiation; Secreted, signal peptide Chromosomal Location of Human Ortholog: 17q25 Cellular Component: proteinaceous extracellular matrix; extracellular space; cell surface; growth cone; cell soma; extracellular region; basement membrane Molecular Function: metalloendopeptidase inhibitor activity; integrin binding; protein binding; protease binding; metal ion binding; enzyme activator activity Biological Process: regulation of Rap protein signal transduction; response to drug; extracellular matrix organization and biogenesis; negative regulation of metalloenzyme activity; central nervous system development; response to hormone stimulus; negative regulation of membrane protein ectodomain proteolysis; negative regulation of cell proliferation; extracellular matrix disassembly; positive regulation of MAPKKK cascade; response to cytokine stimulus; negative regulation of Ras protein signal transduction; negative regulation of mitotic cell cycle; positive regulation of adenylate cyclase activity; positive regulation of neuron differentiation; aging
Research Articles on TIMP2	**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/polyclonal-human-mouse-antibody/timp2/6396575