TIMP4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TIMP4, Polyclonal Antibody
Full Product Name	TIMP4 (Tissue inhibitor of metalloproteinases 4) (MaxLight 650)
Product Gene Name	anti-TIMP4 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied as a liquid in PBS, pH 7.2. Labeled with MaxLight650.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human, mouse and rat TIMP4. No crossreactivity with other proteins.
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 amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	25,503 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (12194568..12200851, complement). Location: 3p25
OMIM	601915
3D Structure	ModBase 3D Structure for Q99727
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminal of human TIMP-4, different from the related rat sequence by two amino acids, and from the related mouse sequence by three amino acids.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-TIMP4 antibody	Antibodies; Matrix Metalloproteinases
Applications Tested/Suitable for anti-TIMP4 antibody	Western Blot (WB), Immunohistochemistry (IHC) Paraffin
Application Notes for anti-TIMP4 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-TIMP4 antibody	The tissue inhibitors of metalloproteinases (TIMPs) inhibit matrix metalloproteinases (MMPs), a group of peptidases involved in degradation of the extracellular matrix. TIMP4 gene contains 5 exons that span 6 kb of genomic DNA.The gene is expressed as a 1.4-kb transcript abundant in heart and present at low levels in several other tissues. expressed TIMP4 inhibits MMPs in vitro. TIMP4 gene is mapped to chromosome 3p25. TIMP-4 binds both progelatinase A and the C domain in a similar manner to that of TIMP-2.
Product References and Citations for anti-TIMP4 antibody	1. Olson, T. M; Hirohata, S.; Ye, J.; Leco, K.; Seldin, M. F.; Apte, S. S.: Cloning of the human tissue inhibitor of metalloproteinase-4 gene (TIMP4) and localization of the TIMP4 and Timp4 gene to human chromosome 3p25 and mouse chromosome 6, respectively. Genomics 51: 148-151, 1998. 2. Bigg, H. F.; Shi, Y. E.; Liu, Y. E.; Steffensen, B.; Overall, C. M.: Specific, high affinity binding of tissue inhibitor of metalloproteinases-4 (TIMP-4) to the COOH-terminal hemopexin-like domain of human gelatinase A. J. Biol. Chem. 272: 15496-15500, 1997.

Other Notes	Small volumes of anti-TIMP4 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.
Searchable Terms for TIMP4 purchase	MBS6404685 is an antibody targeting TIMP4. Also known as TIMP4 (Tissue inhibitor of metalloproteinases 4) (MaxLight 650). Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TIMP4. It may not necessarily be applicable to this product.

NCBI GI #	4507515
NCBI GeneID	7079
NCBI Accession #	NP_003247.1
UniProt Primary Accession #	Q99727
UniProt Secondary Accession #	B2R7K6
UniProt Related Accession #	Q99727
GenBank Nucleotide #	NM_003256.3
NCBI Official Full Name	metalloproteinase inhibitor 4
NCBI Official Synonym Full Names	TIMP metallopeptidase inhibitor 4
NCBI Official Symbol	TIMP4
UniProt Protein Name	Metalloproteinase inhibitor 4
UniProt Synonym Protein Names	Tissue inhibitor of metalloproteinases 4
Protein Family	Metalloproteinase inhibitor
UniProt Gene Name	TIMP4
UniProt Synonym Gene Names	TIMP-4
UniProt Entry Name	TIMP4_HUMAN
NCBI Protein Information	metalloproteinase inhibitor 4; TIMP-4; tissue inhibitor of metalloproteinase 4; tissue inhibitor of metalloproteinases 4
NCBI Summary for TIMP4	This gene belongs to the TIMP gene family. The proteins encoded by this gene family are inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix. The secreted, netrin domain-containing protein encoded by this gene is involved in regulation of platelet aggregation and recruitment and may play role in hormonal regulation and endometrial tissue remodeling. [provided by RefSeq, Jul 2008]
UniProt Comments for TIMP4	TIMP4: 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 and MMP- 9. Belongs to the protease inhibitor I35 (TIMP) family. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 3p25 Cellular Component: extracellular space; proteinaceous extracellular matrix; sarcomere Molecular Function: metalloendopeptidase inhibitor activity; protease binding; metal ion binding Biological Process: response to drug; response to peptide hormone stimulus; negative regulation of metalloenzyme activity; ovulation cycle; central nervous system development; response to cytokine stimulus; response to hormone stimulus; response to lipopolysaccharide; negative regulation of membrane protein ectodomain proteolysis
Research Articles on TIMP4	**1.** Heterogeneous methylation in the promoter region of TIMP4 was associated with cancer progression in non-small cell lung cancer.

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-rat-antibody/timp4/6404685