TIMP4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TIMP4, Polyclonal Antibody
Full Product Name	TIMP4 (Tissue inhibitor of metalloproteinases 4) (HRP)
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 Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human, mouse and rat TIMP4. No crossreactivity with other proteins.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, store at 4 degree C for one month. Can also be aliquoted and stored frozen at -20 degree C for long term.
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	HRP
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	MBS6404681 is an antibody targeting TIMP4. Also known as TIMP4 (Tissue inhibitor of metalloproteinases 4) (HRP). Reactive in Human, Mouse, Rat. Host: Rabbit.
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.

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.
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