TIMP2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TIMP2, Polyclonal Antibody
Full Product Name	TIMP2 Rabbit pAb
Product Gene Name	anti-TIMP2 antibody
Product Synonym Names	CSC21K; TIMP 2; TIMP2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% Sodium Azide and 50% Glycerol.
Purity/Purification	Affinity Chromatography
Preparation and Storage	Store at 4 degree C short term. Store at -20 degree C long term. Avoid freeze/thaw cycle.
Molecular Weight	22kDa
OMIM	188825
3D Structure	ModBase 3D Structure for P16035
Immunogen	A synthesized peptide derived from human TIMP2
Cellular Localization	Secreted
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TIMP2 antibody	Western Blot (WB), Flow Cytometry (FC/FACS)
Application Notes for anti-TIMP2 antibody	WB: 1:500-1:2000 FC/FACS: 1:50
Related Product Information for anti-TIMP2 antibody	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.
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 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 TIMP2 purchase	MBS8543205 is an antibody targeting TIMP2. Also known as TIMP2 Rabbit pAb. Reactive in Human. Host: Rabbit.

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 Related Accession #	P16035
GenBank Nucleotide #	NP_003246.1
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
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.** Imbalance in the metalloproteinase (MMP2, MMP9) to inhibitor tissue expression (TIMP1, TIMP2) in the vessel wall (the cross-sections of the internal thoracic artery, radial artery, and saphenous vein) might predispose to aortocoronary graft failure after coronary artery bypass grafting. A stronger expression of TIMPs than MMPs in the arterial grafts might explain favourable long-term outcomes.

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