10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TIMP2 Antibody (monoclonal) (M03J)

Mouse monoclonal antibody raised against a full length recombinant TIMP2.
Catalog # AT4245a

Product Information

Application	WB, IHC, IF
Primary Accession	P16035
Other Accession	BC052605
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	1C3
Calculated MW	24399

Additional Information

Gene ID	7077
Other Names	Metalloproteinase inhibitor 2, CSC-21K, Tissue inhibitor of metalloproteinases 2, TIMP-2, TIMP2
Target/Specificity	TIMP2 (AAH52605, 27 a.a. ~ 220 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	TIMP2 Antibody (monoclonal) (M03J) is for research use only and not for use in diagnostic or therapeutic procedures.

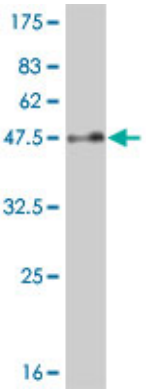
Background

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.

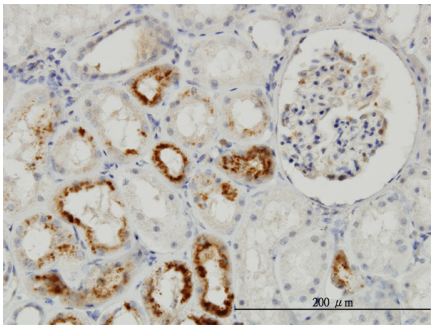
References

Clinical Impact of MMP and TIMP Gene Polymorphisms in Gastric Cancer. Alakus H, et al. World J Surg, 2010 Aug 21. PMID 20730428.Matrix metalloproteinase-3 promoter polymorphisms but not dupA-H. pylori correlate to duodenal ulcers in H. pylori-infected females. Yeh YC, et al. BMC Microbiol, 2010 Aug 13. PMID 20707923.Common genetic polymorphisms in Moyamoya and atherosclerotic disease in Europeans. Roder C, et al. Childs Nerv Syst, 2010 Aug 6. PMID 20694560.A genetic association study of maternal and fetal candidate genes that predispose to preterm prelabor rupture of membranes (PROM). Romero R, et al. Am J Obstet Gynecol, 2010 Jul 29. PMID 20673868.Genetic variants in COL2A1, COL11A2, and IRF6 contribute risk to nonsyndromic cleft palate. Nikopensius T, et al. Birth Defects Res A Clin Mol Teratol, 2010 Jul 29. PMID 20672350.

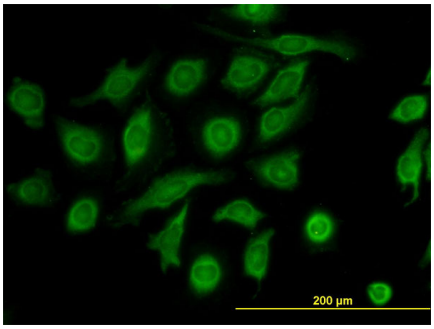
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (47.08 KDa) .



Immunoperoxidase of monoclonal antibody to TIMP2 on formalin-fixed paraffin-embedded human kidney. [antibody concentration 3 ug/ml]



Immunofluorescence of monoclonal antibody to TIMP2 on HeLa cell. [antibody concentration 10 ug/ml]

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.