ARG20584
anti-TIMP2 antibody [3A4]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [3A4] recognizes TIMP2
Tested Reactivity	Hu, Zfsh
Predict Reactivity	Ms, Rat, Chk, Pig, Rb
Tested Application	IHC-P, IHC-Wmt, WB
Host	Mouse
Clonality	Monoclonal
Clone	3A4
Isotype	IgG2a
Target Name	TIMP2
Species	Human
Immunogen	Synthetic peptide from Human TIMP-2 protein and Mouse myeloma Ag8563 cells.
Conjugation	Un-conjugated
Alternate Names	TIMP-2; Tissue inhibitor of metalloproteinases 2; CSC-21K; DDC8; Metalloproteinase inhibitor 2

Application Instructions

Application table

Application	Dilution
IHC-P	1-5 µg/ml
IHC-Wmt	Assay-dependent
WB	1-2 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: IHC: formalin-fixed, paraffin-embedded colonic adenocarcinoma.
Western blot: rhTIMP-2, 400 ng per lane.

Properties

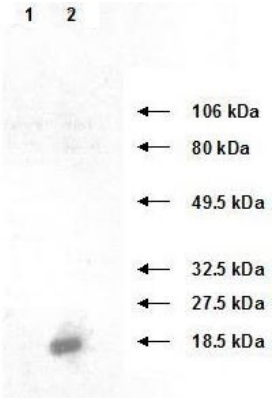
Form	Liquid
Purification	Purification with Protein A/G.
Buffer	PBS and 0.08% Sodium azide
Preservative	0.08% Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

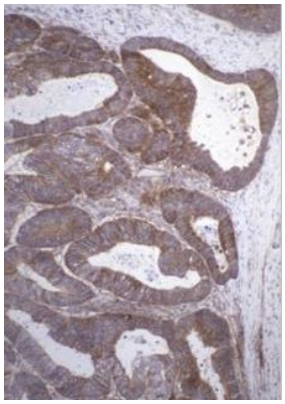
Database links	GeneID: 7077 Human Swiss-port # P16035 Human
Gene Symbol	TIMP2
Gene Full Name	TIMP metallopeptidase inhibitor 2
Background	This gene is a member of the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases, a group of peptidases 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. [provided by RefSeq, Jul 2008]
Function	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. [UniProt]
Calculated Mw	24 kDa
PTM	The activity of TIMP2 is dependent on the presence of disulfide bonds.

Images



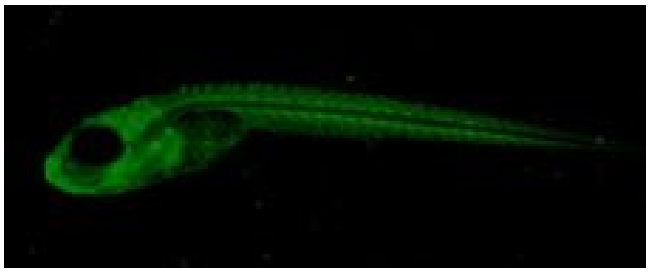
ARG20584 anti-TIMP2 antibody [3A4] WB image

Western blot: 400 ng of 1) TIMP-1, and 2) TIMP-2 recombinant protein stained with ARG20584 anti-TIMP2 antibody [3A4].



ARG20584 anti-TIMP2 antibody [3A4] IHC-P image

Immunohistochemistry: wax-embedded Human colon stained with ARG20584 anti-TIMP2 antibody [3A4] at 1:32 dilution.



ARG20584 anti-TIMP2 antibody [3A4] IHC-Wmt image

Immunohistochemistry: whole-mount Zebrafish embryo stained with ARG20584 anti-TIMP2 antibody [3A4].