



# TIMP-2 Polyclonal Antibody

<b>Catalog No</b>	BYab-02797
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Gene Name</b>	TIMP2
<b>Protein Name</b>	Metalloproteinase inhibitor 2
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human TIMP2. AA range:21-70
<b>Specificity</b>	TIMP-2 Polyclonal Antibody detects endogenous levels of TIMP-2 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	TIMP2; Metalloproteinase inhibitor 2; CSC-21K; Tissue inhibitor of metalloproteinases 2; TIMP-2
<b>Observed Band</b>	25kD
<b>Cell Pathway</b>	Secreted.
<b>Tissue Specificity</b>	Placenta, Skin, Synovial fluid, Testis,
<b>Function</b>	function:Complexes with metalloproteinases (such as collagenases) and irreversibly inactivates them. 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. PTM:The activity of TIMP2 is dependent on the presence of disulfide bonds. similarity:Belongs to the protease inhibitor I35 (TIMP) family. similarity:Contains 1 NTR domain.
<b>Background</b>	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

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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],

**matters needing attention**

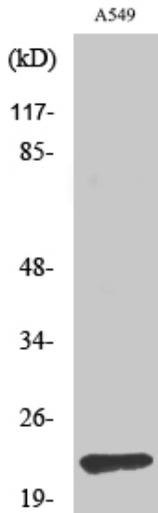
Avoid repeated freezing and thawing!

**Usage suggestions**

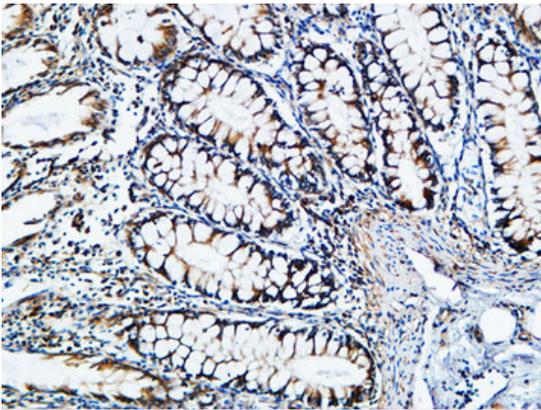
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



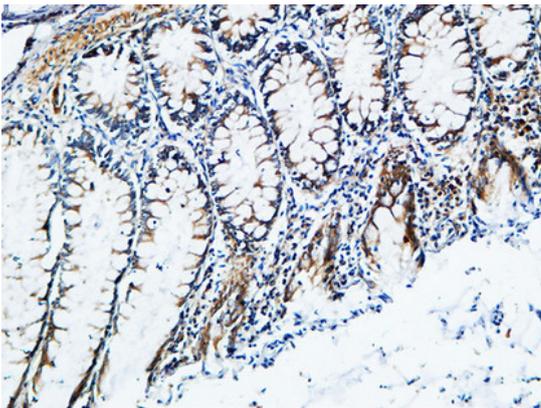
## Products Images

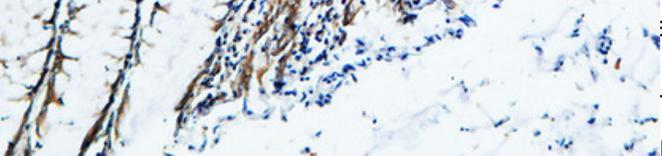


Western Blot analysis of various cells using TIMP-2 Polyclonal Antibody diluted at 1:1000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000

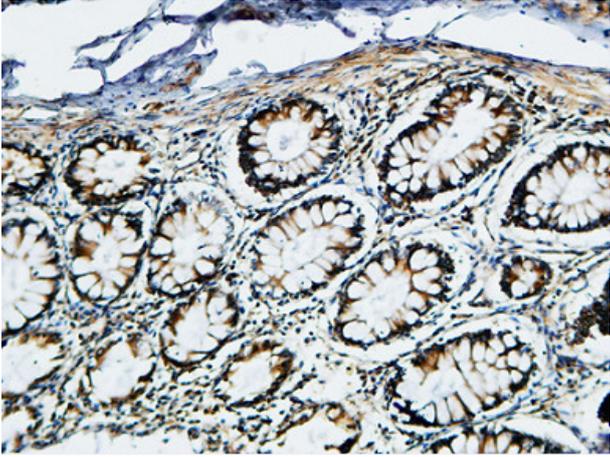


Immunohistochemical analysis of paraffin-embedded Human colon. 1, Antibody was diluted at 1:200(4° overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200(room temperature, 30min).

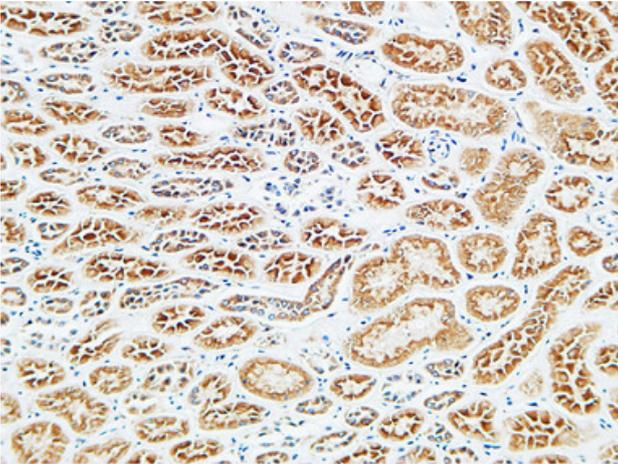


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Immunohistochemical analysis of paraffin-embedded Human kidney. 1, Antibody was diluted at 1:200(4° overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200(room temperature, 30min).