

Product datasheet for **AM05382PU-N**

TIMP2 Mouse Monoclonal Antibody [Clone ID: 3A4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3A4
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA. Western Blot: 1 - 2 µg/ml. Immunohistochemistry on Paraffin Sections: 5-10 µg/ml. <i>Positive Control:</i> Colon and gastric tissues. Stronger expressions observed in tumor versus normal proteins.
Reactivity:	Chicken, Human, Mouse, Porcine, Rabbit, Zebrafish
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Hybridoma produced by the fusion of splenocytes from BALB/c mice immunized with a synthetic peptide derived from the Human TIMP-2 protein and mouse myeloma Ag8563 cells.
Specificity:	This antibody recognizes Matrix Metalloproteinase 2 (TIMP2).
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Preservative: 0.08% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A/G
Conjugation:	Unconjugated
Storage:	Upon receipt, store (in aliquots) at -20°C to -80°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	18.5-21 kDa
Gene Name:	TIMP metalloproteinase inhibitor 2



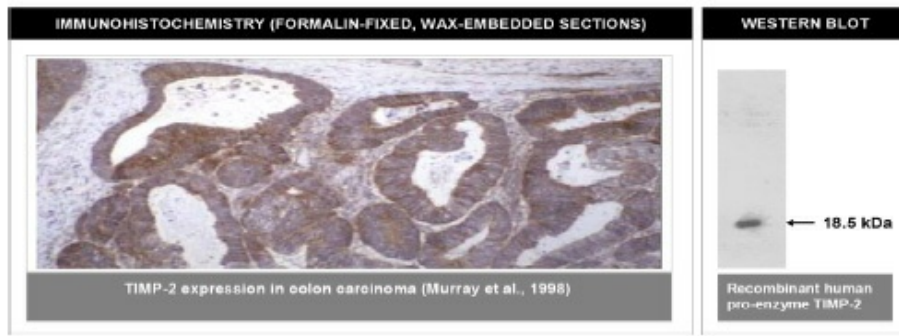
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Database Link: [Entrez Gene 7077 Human P16035](#)

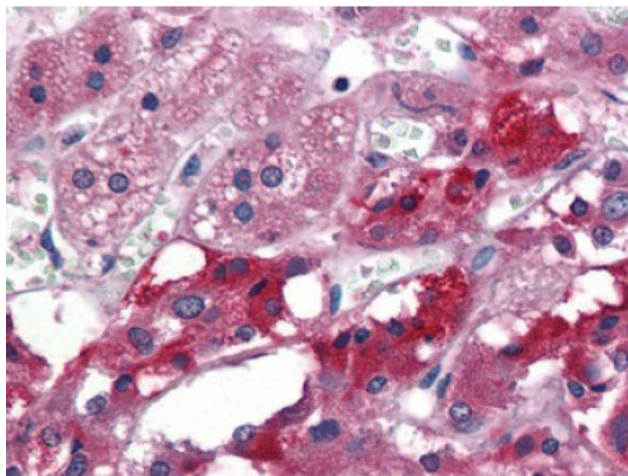
Background: TIMP-1, TIMP-2, TIMP-3 and TIMP-4 (for tissue inhibitor of metalloproteinases-1, -2, -3 and -4) complex with metalloproteinases such as collagenases, gelatinases and stromelysins, resulting in irreversible inactivation of the metalloproteinase. TIMP-1 was found to be identical to EPA (erythroid-potentiating activity). Parathyroid hormone has been shown to be a regulator of TIMP-2 in osteoblastic cells. TIMP-3 may be involved in regulating trophoblastic invasion of the uterus as well as in regulating remodeling of the extracellular matrix during the folding of epithelia, and in the formation, branching and expansion of epithelial tubes. TIMP-4 is most highly expressed in heart and low levels of TIMP-4 are expressed in liver, brain, lung, thymus and spleen.

Synonyms: CSC-21K, TIMP-2

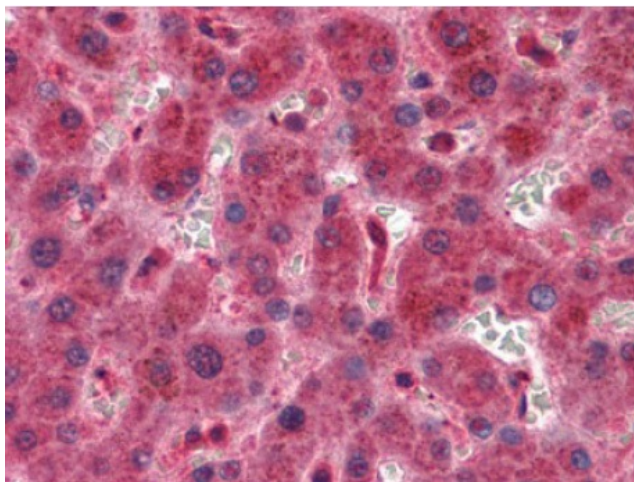
Product images:



Left: Immunohistochemical staining of human colon carcinoma tissue using TIMP2 Antibody. Right: Western blot using TIMP-2 antibody on recombinant human TIMP-2 proenzyme (400 ng/lane).



Formalin-Fixed, Paraffin-Embedded Human Adrenal tissue stained with TIMP2 Antibody at 5 ug/ml after heat-induced antigen retrieval.



Formalin-Fixed, Paraffin-Embedded Human Liver tissue stained with TIMP2 Antibody at 5 ug/ml after heat-induced antigen retrieval.