

Product datasheet for **AM05381PU-N**

TIMP1 Mouse Monoclonal Antibody [Clone ID: 2A5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2A5
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA. Immunohistochemistry on paraffin sections: 1 - 5 µg/ml. Western Blot: 1 - 2 µg/ml.
Reactivity:	Human, Monkey
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Hybridoma produced by the fusion of splenocytes from BALB/c mice
Specificity:	This antibody reacts to Tissue Inhibitor of Matrix Metalloproteinase 1.
Formulation:	Phosphate buffered saline with 0.08% sodium azide State: Purified State: Liquid purified Ig
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	The antibody can be shipped at ambient temperature. Store (in aliquots) at -20°C only. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	TIMP metalloproteinase inhibitor 1
Database Link:	Entrez Gene 7076 Human P01033



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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 (erythroidpotentiation 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:

TIMP-1, TIMP, Tissue inhibitor of metalloproteinases, Metalloproteinase inhibitor 1, EPA, CLGI

Product images:

Left: Immunohistochemical staining of human colon carcinoma tissue using TIMP-1 antibody. Right: Western blot using TIMP-1 antibody against recombinant human TIMP-1 proenzyme (400 ng/lane).