

Monoclonal Antibody to TIMP1 - Purified

Alternate names:	CLGI, EPA, Erythroid-potentiating activity, Fibroblast collagenase inhibitor, Metalloproteinase inhibitor 1, TIMP, TIMP-1, Tissue inhibitor of metalloproteinases
Catalog No.:	AM00492PU-N
Quantity:	0.1 mg
Concentration:	0.2 mg/ml
Background:	Tissue inhibitor of metalloproteinases-1 (TIMP-1) and Tissue inhibitor of metalloproteinases-2 (TIMP-2) are inhibitory enzymes of matrix metalloproteinase family, and are thought to be of great importance in the maintenance of connective tissue integrity. TIMP-1 forms a complex of 1:1 stoichiometry with activated interstitial collagenase, activated stromelysin, active form of 72kDa Type IV collagenase (also known as MMP-2 or gelatinase A), and latent and active forms 92 kDa Type IV collagenase (also known as MMP-9 or gelatinase B). TIMPs inhibit the proteolytic invasiveness of tumor cells and normal placental trophoblast cells.
Uniprot ID:	P01033
NCBI:	NP_003245.1
GeneID:	7076
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	102D1
Format:	State: Liquid ascites Purification: Protein G chromatography Buffer System: 10 mM PBS, pH 7.4, with 0.2 % BSA and 0.09 % sodium azide.
Applications:	Western Blotting: 1-2 µg/ml for 2 hrs at RT. Immunohistology (Formalin/paraffin): 1-2 µg/ml for 30 minute at RT, staining of formalin-fixed tissues is IMPROVED by boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min. Positive Control: Conditioned, serum-free medium from (TPA-treated) human fetal lung cell line HFL-1. Bladder, breast, and ovarian carcinoma. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody detects TIMP-1. Species: Human. Other species not tested.

Add. Information: Mol. Wt. of Antigen: 28.5 kDa
Cellular Localization: Cytoplasmic

Storage: Store the antibody at 2 - 8 °C up to one month or in aliquots at -20 °C for longer. Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings: 1. Hurskainen T, et. al. Journal of Histochemistry and Cytochemistry, 1996, 44(12):1379-88.

Pictures: Formalin-fixed, paraffin-embedded human breast carcinoma stained with AM00492PU-N using peroxidase-conjugate and AEC chromogen. Note cytoplasmic staining of tumor cells.

