

AF2610**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
Quantity:	0.1 mg
Concentration:	0.5 mg/ml
Background:	Tissue inhibitor of metalloproteinases 1 (TIMP1) and Tissue inhibitor of metalloproteinases 2 (TIMP 2) have similar properties, specifically in inhibiting enzymes of the matrix metalloproteinase family, and are thought to be of great importance in the maintenance of connective tissue integrity. TIMP1 forms a complex of 1:1 stoichiometry with activated interstitial collagenases, activated stromelysin, active form of 72kDa Type IV collagenase (also known as MMP2 or gelatinase A), and latent and active forms of 92kDa Type IV collagenase (also known as MMP0 or gelatinase B).
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:	147-6D11
Format:	State: Liquid purified IgG fraction Buffer System: 0.1M Sodium Phosphate buffer, pH 7.0 Preservatives: None Stabilizers: 0.5% Protease free BSA
Applications:	Western Blot. Immunohistochemistry on Paraffin Sections: 2-10 µg/ml. Heat induced antigen retrieval with citrat buffer, pH 6.2 using a pressure cooker was preformed. Sections were blocking using a commercially available casein solution. Signal was generated using a commercially available polymer HRP detection system and DAB. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This Monoclonal <i>147-6D11</i> antibody specifically reacts with Human Tissue Inhibitor of Metalloproteinases 1 (hTIMP-1). Other species not tested.
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

1. Kodama S, Kishi J, Obata K, Iwata K, Hayakawa T. Monoclonal antibodies to bovine collagenase inhibitor. Coll Relat Res. 1987 Oct;7(5):341-50. PubMed PMID: 3319376.
2. Okada Y, Takeuchi N, Tomita K, Nakanishi I, Nagase H. Immunolocalization of matrix metalloproteinase 3 (stromelysin) in rheumatoid synovioblasts (B cells): correlation with rheumatoid arthritis. Ann Rheum Dis. 1989 Aug;48(8):645-53. PubMed PMID: 2675782.
3. Fukuda, Y. et al. Immunohistochemical study on tissue inhibitors of metalloproteinases in normal and pathological human livers. Gastroenterol. Jpn., 26, 37-41, 1991.

Pictures:

Staining of FFPE Human prostatic cancer (20x and 40x) with TIMP1 Antibody Cat.-No AF2610 (Clone 147-6D11) at 2 µg/ml. Antibody positive in the cytoplasm of neoplastic epithelial cell.

