Best Tools for immunology Research

TIMP1 (PT2236) Mouse mAb

Catalog No :	YM6655
Reactivity :	Human
Applications :	WB;ELISA
Target :	TIMP1
Fields :	>>HIF-1 signaling pathway
Gene Name :	TIMP1 CLGI TIMP
Protein Name :	Metalloproteinase inhibitor 1 (Erythroid-potentiating activity) (EPA) (Fibroblast collagenase inhibitor) (Collagenase inhibitor) (Tissue inhibitor of metalloproteinases 1) (TIMP-1)
Human Gene Id :	7076
Human Swiss Prot No :	P01033
Immunogen :	Synthesized peptide derived from human Tissue Inhibitor of Metalloproteinases 1(TIMP1) AA range: 50-150
Specificity :	This antibody detects endogenous levels of human Metalloproteinase inhibitor 1 (Erythroid-potentiating activity) (EPA) (Fibroblast collagenase inhibitor) (Collagenase inhibitor) (Tissue inhibitor of m
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Mouse, Monoclonal/IgG1, Kappa
Dilution :	WB 500-2000, ELISA 1:5000-20000
Purification :	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 23kD

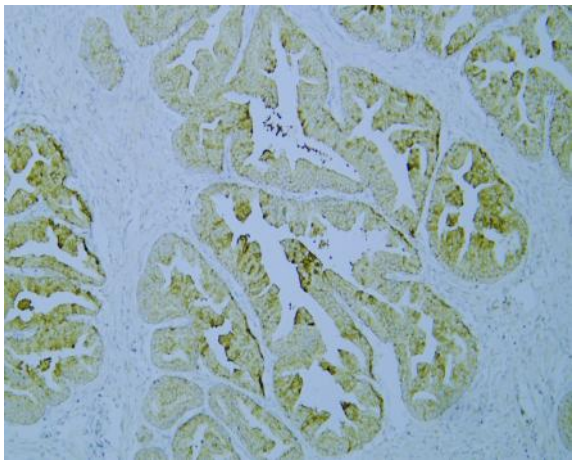
Background : This gene belongs to the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases (MMPs), a group of peptidases involved in degradation of the extracellular matrix. In addition to its inhibitory role against most of the known MMPs, the encoded protein is able to promote cell proliferation in a wide range of cell types, and may also have an anti-apoptotic function. Transcription of this gene is highly inducible in response to many cytokines and hormones. In addition, the expression from some but not all inactive X chromosomes suggests that this gene inactivation is polymorphic in human females. This gene is located within intron 6 of the synapsin I gene and is transcribed in the opposite direction. [provided by RefSeq, Jul 2008],

Function : function:Complexes with metalloproteinases (such as collagenases) and irreversibly inactivates them. Also mediates erythropoiesis in vitro; but, unlike IL-3, it is species-specific, stimulating the growth and differentiation of only human and murine erythroid progenitors. Known to act on MMP-1, MMP-2, MMP-3, MMP-7, MMP-8, MMP-9, MMP-10, MMP-11, MMP-12, MMP-13 and MMP-16. Does not act on MMP-14.,PTM:The activity of TIMP1 is dependent on the presence of disulfide bonds.,similarity:Belongs to the protease inhibitor I35 (TIMP) family.,similarity:Contains 1 NTR domain.,

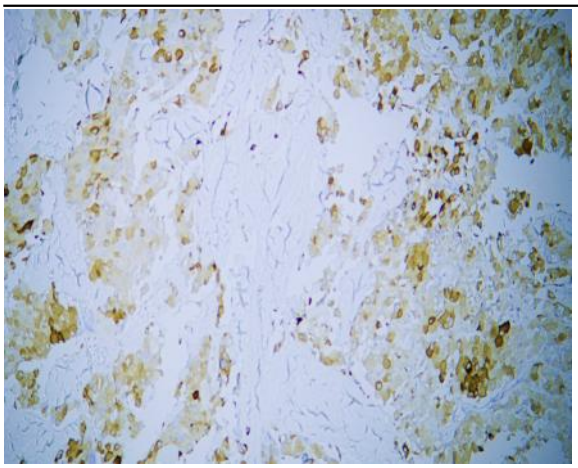
Subcellular Location : Secreted .

Expression : Detected in rheumatoid synovial fluid (at protein level).

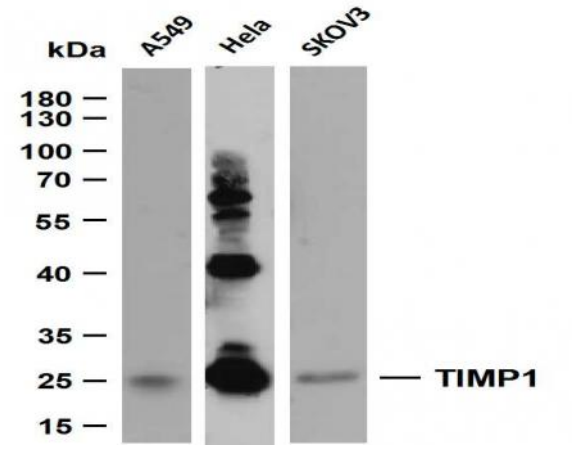
Products Images



Human prostate tissue was stained with Anti-TIMP1 (PT2236) Antibody



Human thyroid carcinoma tissue was stained with Anti-TIMP1 (PT2236) Antibody



Various whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-TIMP1(PT2236) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: A549 Lane 2: Hela Lane 3: SKOV3 Predicted band size: 23kDa Observed band size: 23kDa