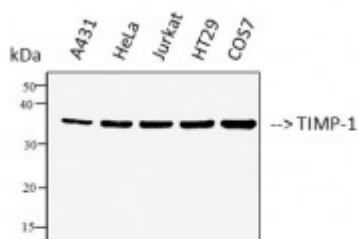


## Anti-TIMP-1 antibody



Western Blot (WB) analysis of 1)A431, 2)HeLa, 3)Jurkat, 4)HT29, 5)COS7 cell lysates using TIMP-1 antibody (STJ96023).



### Description

TIMP-1 is a protein encoded by the TIMP-1 gene which is approximately 23,2 kDa. TIMP-1 is involved in the GPCR pathway, phospholipase-C pathway, apoptotic pathways in synovial fibroblasts, ERK signalling and the CREB pathway. It functions as a growth factor that regulates cell differentiation, migration and cell death and activates cellular signalling cascades via CD63 and ITGB1, it also acts as an inhibitor of MMPs which are groups of peptides involved in extracellular matrix degradation. TIMP-1 is secreted and is only active in the presence of disulphide bonds. It is ubiquitously expressed in numerous cells and tissues of the body. Mutations in the TIMP-1 gene may result in chronic venous leg ulcers and oral submucous fibrosis. STJ96023 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. This polyclonal antibody detects endogenous levels of TIMP-1 protein.

<b>Model</b>	STJ96023
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human, Mouse, Rat
<b>Applications</b>	ELISA, WB
<b>Immunogen</b>	Synthesized peptide derived from human TIMP-1
<b>Immunogen Region</b>	30-110 aa, Internal
<b>Gene ID</b>	<a href="#">7076</a>
<b>Gene Symbol</b>	<a href="#">TIMP1</a>
<b>Dilution range</b>	WB 1:500-1:2000ELISA 1:10000
<b>Specificity</b>	TIMP-1 Polyclonal Antibody detects endogenous levels of TIMP-1 protein.

<b>Tissue Specificity</b>	Detected in rheumatoid synovial fluid (at protein level).
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Note</b>	For Research Use Only (RUO).
<b>Protein Name</b>	Metalloproteinase inhibitor 1 Erythroid-potentiating activity EPA Fibroblast collagenase inhibitor Collagenase inhibitor Tissue inhibitor of metalloproteinases 1 TIMP-1
<b>Molecular Weight</b>	24 kDa
<b>Clonality</b>	Polyclonal
<b>Conjugation</b>	Unconjugated
<b>Isotype</b>	IgG
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Concentration</b>	1 mg/ml
<b>Storage Instruction</b>	Store at -20°C, and avoid repeat freeze-thaw cycles.
<b>Database Links</b>	<a href="https://www.ncbi.nlm.nih.gov/ncbiinfo/condoncode/HGNC:118200MIM:305370">HGNC:118200MIM:305370</a>
<b>Alternative Names</b>	Metalloproteinase inhibitor 1 Erythroid-potentiating activity EPA Fibroblast collagenase inhibitor Collagenase inhibitor Tissue inhibitor of metalloproteinases 1 TIMP-1
<b>Function</b>	Metalloproteinase inhibitor that functions by forming one to one complexes with target metalloproteinases, such as collagenases, and irreversibly inactivates them by binding to their catalytic zinc cofactor. Acts on MMP1, MMP2, MMP3, MMP7, MMP8, MMP9, MMP10, MMP11, MMP12, MMP13 and MMP16. Does not act on MMP14. Also functions as a growth factor that regulates cell differentiation, migration and cell death and activates cellular signaling cascades via CD63 and ITGB1. Plays a role in integrin signaling. Mediates erythropoiesis in vitro; but, unlike IL3, it is species-specific, stimulating the growth and differentiation of only human and murine erythroid progenitors.
<b>Cellular Localization</b>	Secreted
<b>Post-translational Modifications</b>	The activity of TIMP1 is dependent on the presence of disulfide bonds. N-glycosylated.