



## Rabbit Anti-TIMP-1 antibody

SL4600R

<b>Product Name:</b>	TIMP-1
<b>Chinese Name:</b>	金属蛋白酶组织抑制因子-1抗体
<b>Alias:</b>	Clgi; Collagenase inhibitor; EPA; EPO; Erythroid Potentiating Activity; Fibroblast collagenase inhibitor; FLJ90373; HC; Human Collagenase Inhibitor; Metalloproteinase inhibitor 1; Metalloproteinase inhibitor 1 precursor; OTTHUMP00000023214; TIMP 1; TIMP; TIMP metalloproteinase inhibitor 1; TIMP1 protein; Tissue Inhibitor of Metalloproteinase 1; Tissue inhibitor of metalloproteinases; Tissue inhibitor of metalloproteinase 1 erythroid potentiating activity collagenase inhibitor.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Rabbit,Sheep,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	21kDa
<b>Cellular localization:</b>	Secretory protein
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human TIMP-1:131-207/207
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	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].

**Function:**

Complexes with metalloproteinases (such as collagenases) and irreversibly inactivates them by binding to their catalytic zinc cofactor. 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.

**Subcellular Location:**

Secreted.

**Post-translational modifications:**

The activity of TIMP1 is dependent on the presence of disulfide bonds.

**Similarity:**

Belongs to the protease inhibitor I35 (TIMP) family.  
Contains 1 NTR domain.

**SWISS:**

P01033

**Gene ID:**

7076

**Database links:**

[Entrez Gene: 7076](#)Human

[Entrez Gene: 21857](#)Mouse

[Omin: 305370](#)Human

[SwissProt: P01033](#)Human

[SwissProt: P12032](#)Mouse

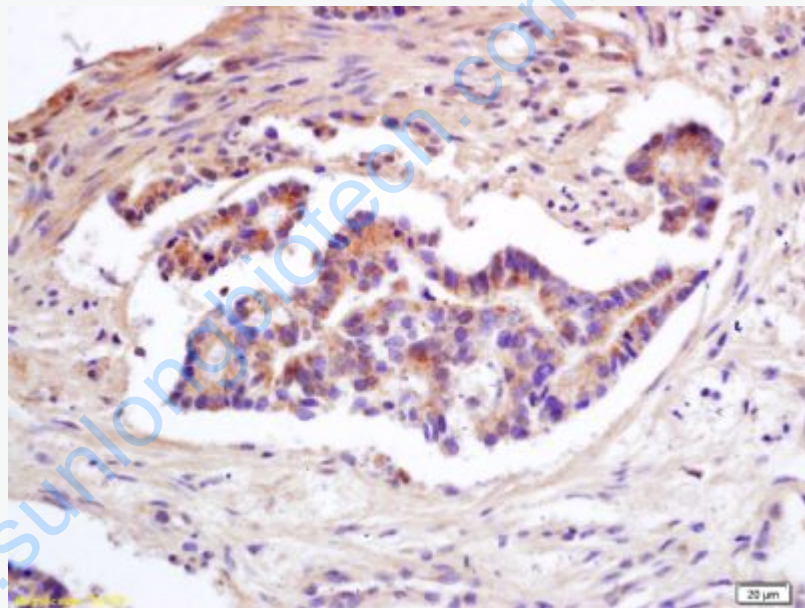
[Unigene: 522632](#)Human

[Unigene: 8245](#)Mouse

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

TIMP1是基质金属蛋白酶的抑制酶, 其功能与MMP相反, 能抑制Tumour细胞的浸润和转移, 主要用于各种恶性Tumour如乳腺癌等的研究。TIMP-1是一种28kDa的glycoprotein, 主要分泌细胞为多种结缔组织细胞, 被认为是组织中MMPs活性的主要调节者, 它可以和MMPs家族成员以共价键方式形成1:1的复合物, 从而发挥其抑制作用。在正常生理条件下, MMPs和TIMPs之间的平衡状态是维持 Extracellular matrix正常状态所必需的, 一旦它们之间的比例失调, 就会造成一系列的病理状态。



**Picture:**

Tissue/cell: human colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-TIMP-1(CT) Polyclonal Antibody, Unconjugated(SL4600R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and

	DAB(C-0010) staining
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