

Rabbit Anti-TIMP-1 antibody

SL0415R

Product Name TIMP-1

Chinese Name 金属蛋白酶组织抑制因子-1 抗体

Alias 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.

Research Area Tumour Cell biology Neurobiology Apoptosis Growth factors and hormones Kinases and Phosphatases Synthesis and Degradation

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human

Applications WB=1:500-2000 (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 21kDa

Cellular localization Secretory protein

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human TIMP-1: 103-207/207

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.



Attention

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

PubMed

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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.

Product Detail

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

[Omim: 305370](#) Human

[SwissProt: P01033](#) Human

[SwissProt: P12032](#) Mouse

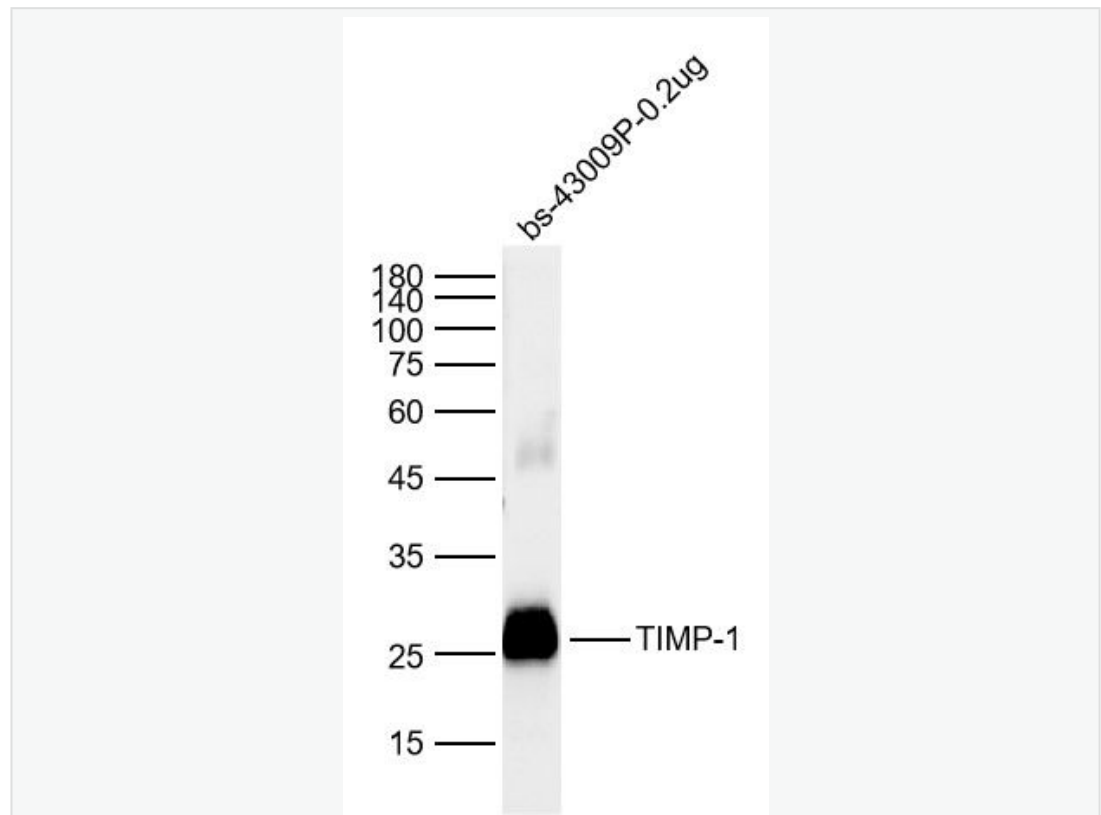
[Unigene: 522632](#) Human

[Unigene: 8245](#) Mouse

Synthesis and Degradation (Synthesis and Degradation)

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。

**Product
Picture**



Sample:

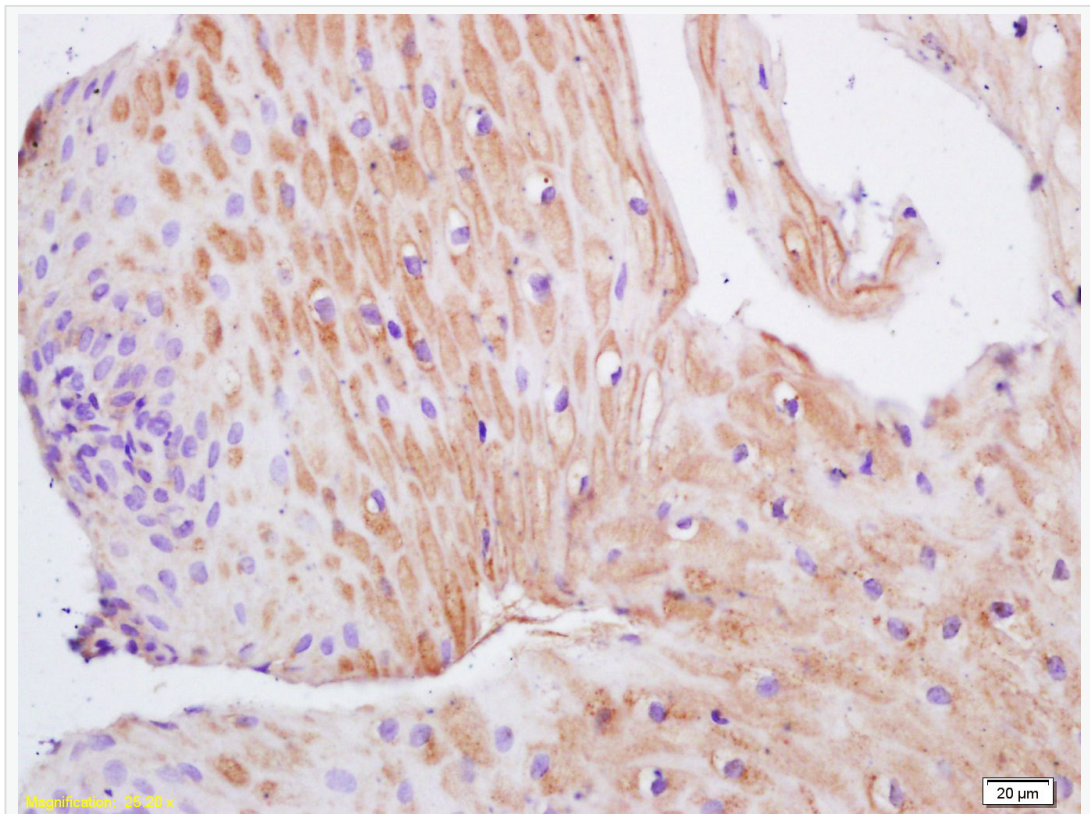
Lane 1: TIMP-1 fusion protein (SL43009P) 0.2ug

Primary: Anti-TIMP-1(SL0415R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 21kDa

Observed band size: 25kDa

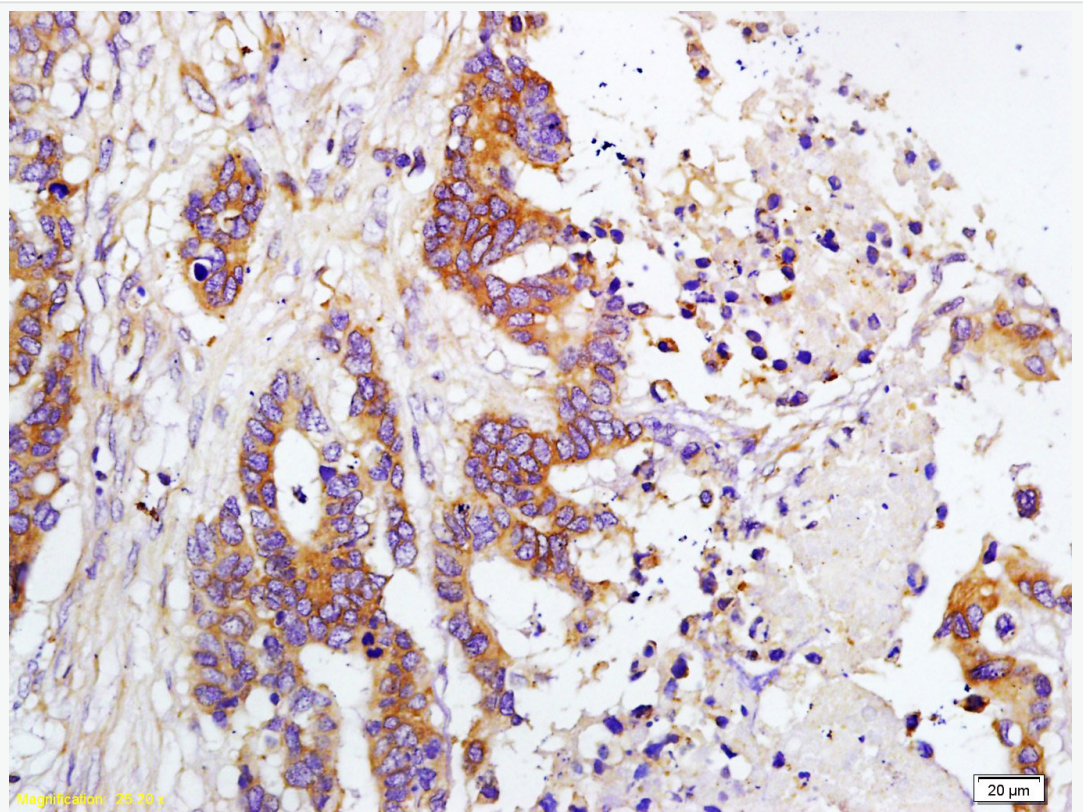


Tissue/cell: human gastric carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, 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;

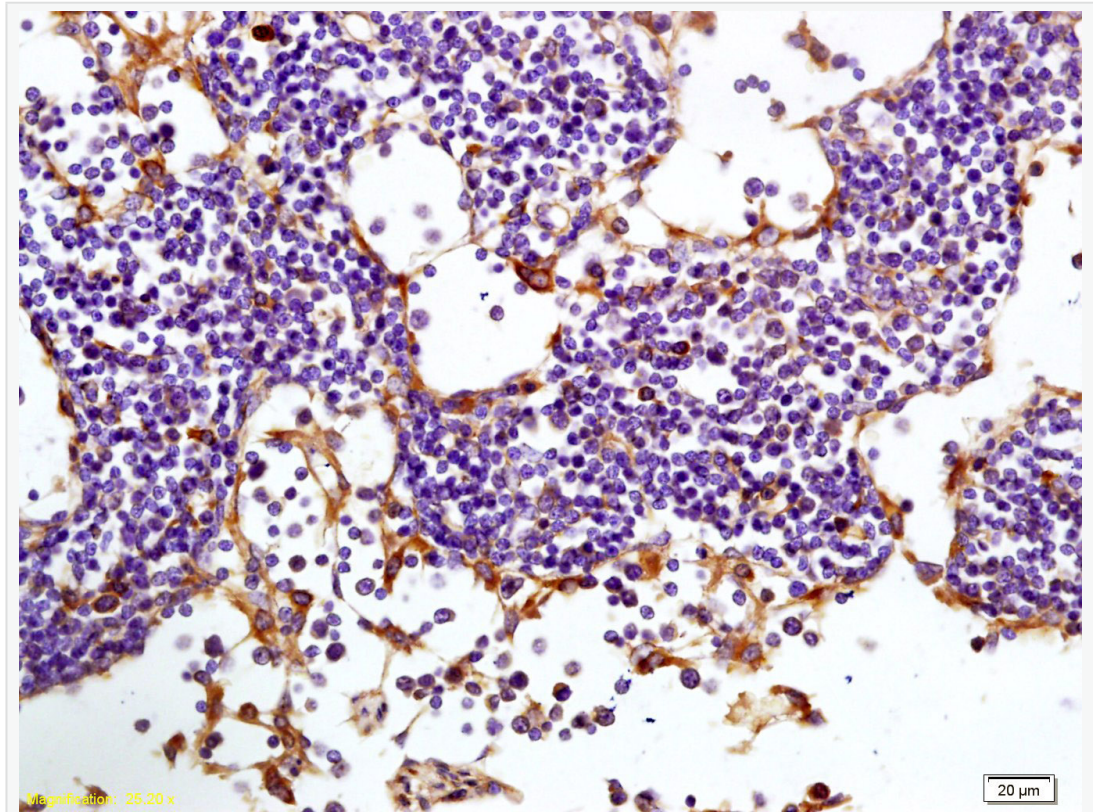
Incubation: Anti-TIMP-1 Polyclonal Antibody, Unconjugated(SL0415R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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

Antigen retrieval: citrate buffer (1M, 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 Polyclonal Antibody, Unconjugated(SL0415R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

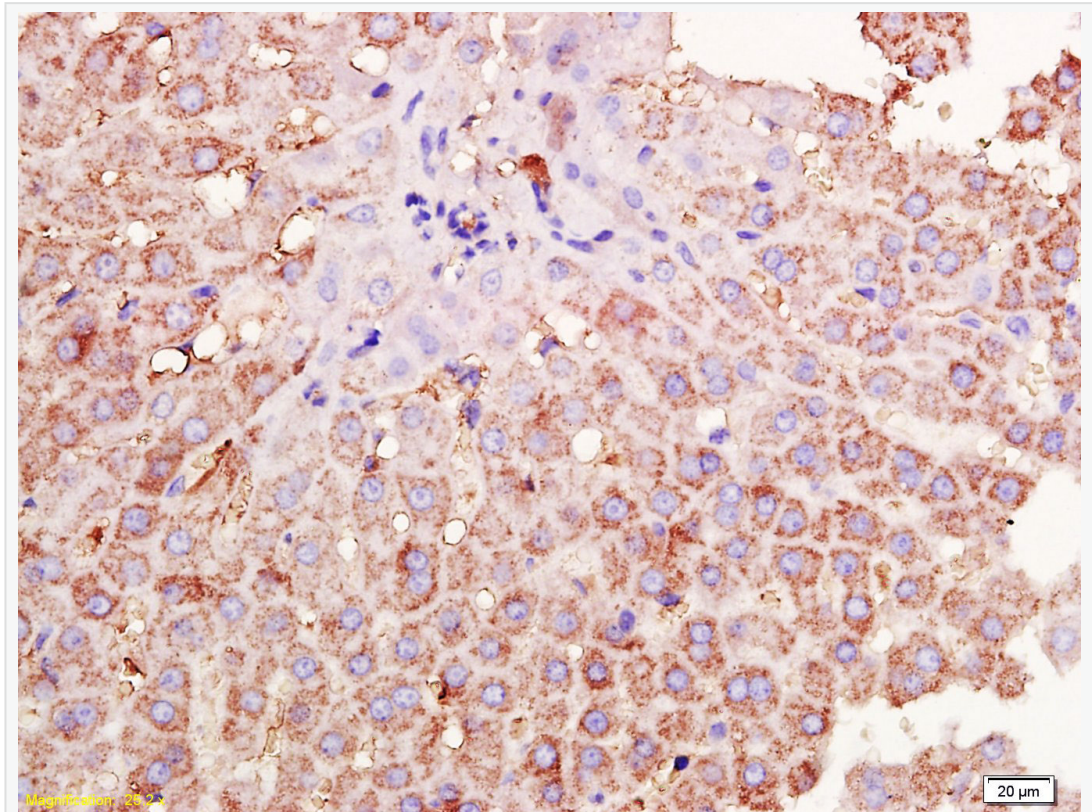


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overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rabbit liver tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, 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 Polyclonal Antibody, Unconjugated(SL0415R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023)



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and DAB(C-0010) staining