



## Rabbit Anti-TIMP-2 antibody

SL10395R

<b>Product Name:</b>	TIMP-2
<b>Chinese Name:</b>	金属蛋白酶组织抑制因子-2抗体
<b>Alias:</b>	Metalloproteinase inhibitor 2 precursor; Tissue inhibitor of metalloproteinases 2; Collagenase inhibitor; CSC 21K; CSC21K; TIMP2; TIMP 2; TIMP 2; TIMP metalloptidase inhibitor 2; TIMP2_HUMAN; Metalloproteinase inhibitor 2; CSC-21K; TIMP-2.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Sheep,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=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>	24kDa
<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-2:51-150/220
<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 is a member of the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix. In addition to an inhibitory role against metalloproteinases, the encoded protein has a unique role among TIMP family

members in its ability to directly suppress the proliferation of endothelial cells. As a result, the encoded protein may be critical to the maintenance of tissue homeostasis by suppressing the proliferation of quiescent tissues in response to angiogenic factors, and by inhibiting protease activity in tissues undergoing remodelling of the extracellular matrix. [provided by RefSeq, Jul 2008].

**Function:**

Complexes with metalloproteinases (such as collagenases) and irreversibly inactivates them by binding to their catalytic zinc cofactor. Known to act on MMP-1, MMP-2, MMP-3, MMP-7, MMP-8, MMP-9, MMP-10, MMP-13, MMP-14, MMP-15, MMP-16 and MMP-19.

**Subunit:**

Interacts (via the C-terminal) with MMP2 (via the C-terminal PEX domain); the interaction inhibits the MMP2 activity.

**Subcellular Location:**

Secreted.

**Post-translational modifications:**

The activity of TIMP2 is dependent on the presence of disulfide bonds.

**Similarity:**

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

**SWISS:**

P16035

**Gene ID:**

7077

**Database links:**

[Entrez Gene: 282093](#)Cow

[Entrez Gene: 100135629](#)Guinea pig

[Entrez Gene: 7077](#)Human

[Entrez Gene: 21858](#)Mouse

[Entrez Gene: 100008689](#)Rabbit

[Entrez Gene: 29543](#)Rat

[Omin: 188825](#)Human

[SwissProt: P16368](#)Cow

[SwissProt: Q9WUC6](#)Guinea pig

[SwissProt: P16035](#)Human

[SwissProt: P25785](#)Mouse

[SwissProt: Q9TRZ7](#)Rabbit

[SwissProt: P30121](#)Rat

[Unigene: 633514](#)Human

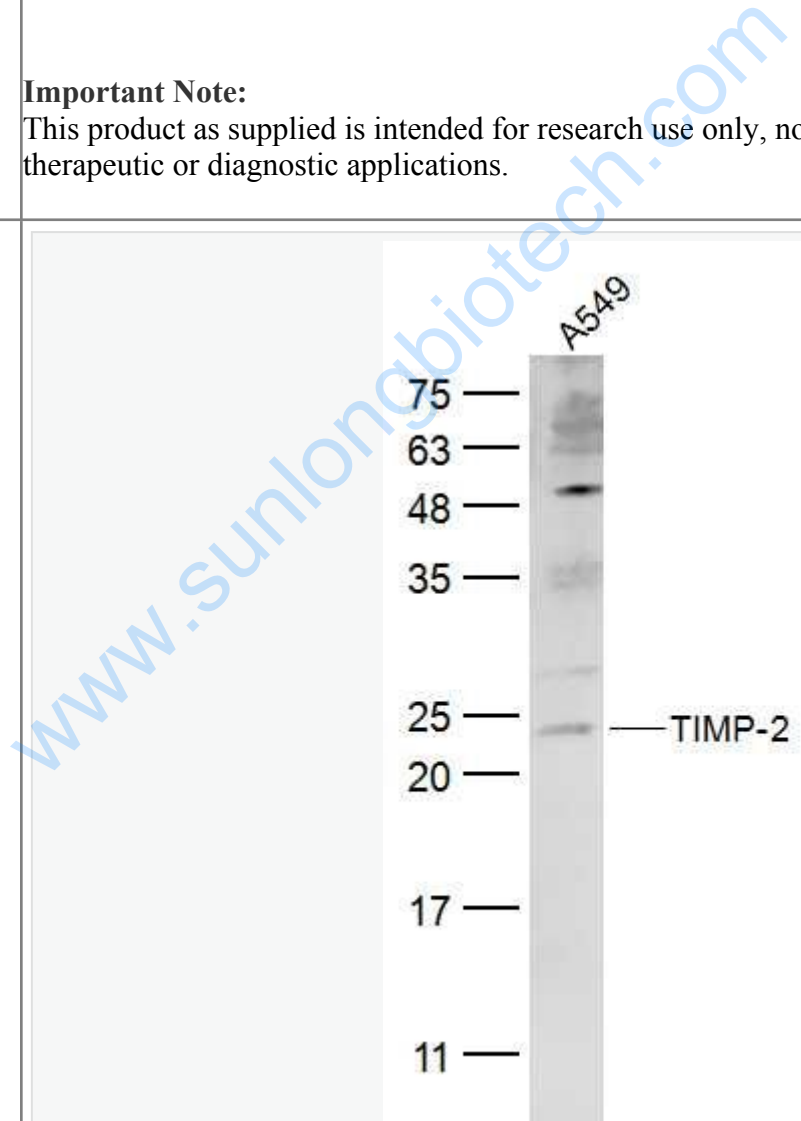
[Unigene: 206505](#)Mouse

[Unigene: 10161](#)Rat

**Important Note:**

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

Picture:



Sample:

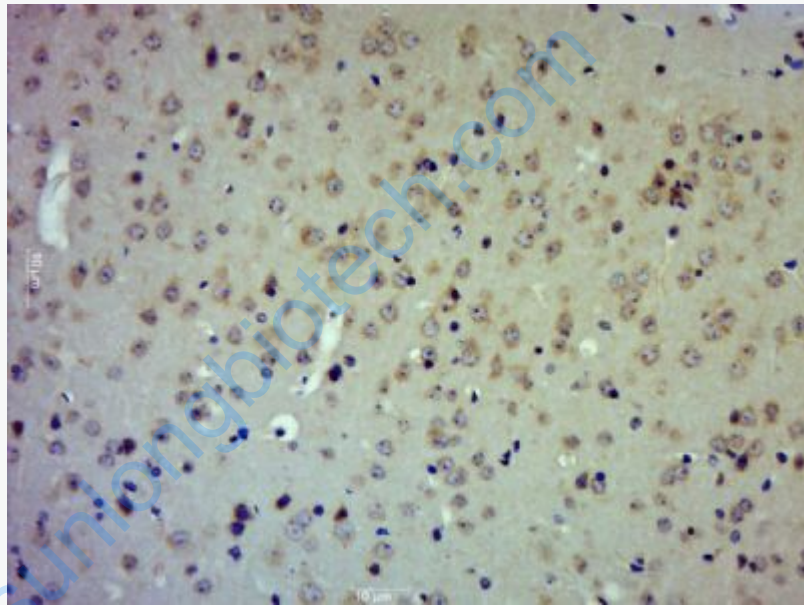
A549(Human) Cell Lysate at 30 ug

Primary: Anti-TIMP-2 (SL10395R) at 1/300 dilution

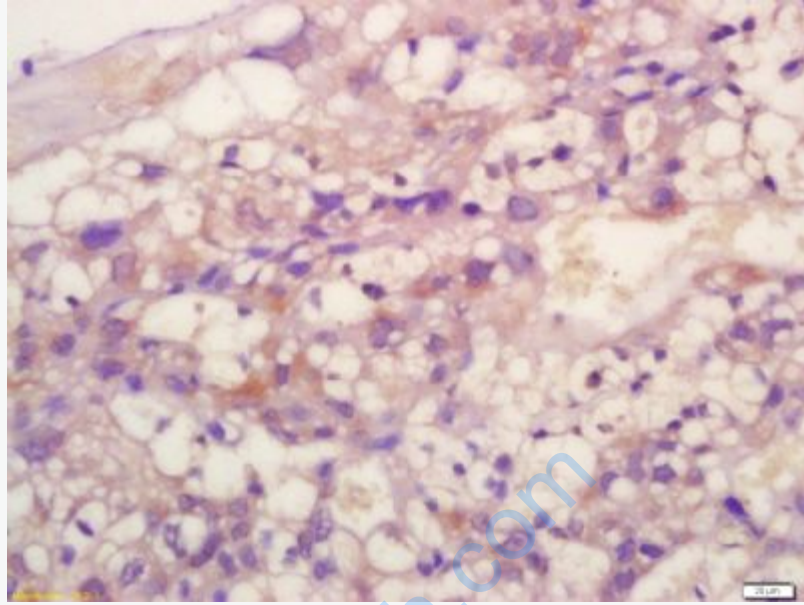
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 24 kD

Observed band size: 24 kD



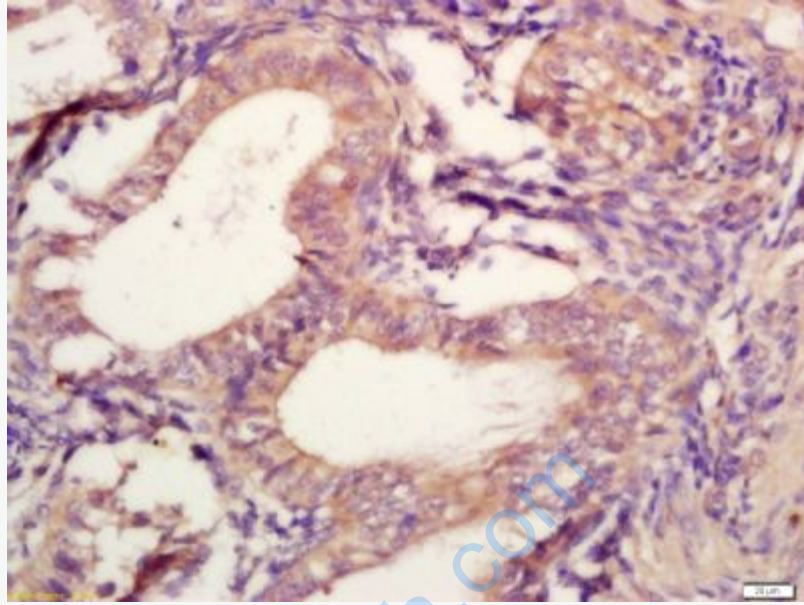
Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TIMP-2) Polyclonal Antibody, Unconjugated (SL10395R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: mouse placenta tissue; 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-2 Polyclonal Antibody, Unconjugated(SL10395R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: Human endometrium tissue; 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-2 Polyclonal Antibody, Unconjugated(SL10395R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining