

Rabbit Anti-TIMP-2 antibody

SL10395R

Product Name TIMP-2

Chinese Name 金属蛋白酶组织抑制因子-2 抗体

Alias Metalloproteinase inhibitor 2 precursor; Tissue inhibitor of metalloproteinases 2; Collagenase inhibitor; CSC 21K; CSC21K; TIMP2; TIMP 2; TIMP 2; TIMP metalloproteinase inhibitor 2; TIMP2_HUMAN; Metalloproteinase inhibitor 2; CSC-21K; TIMP-2.

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human, Mouse, Rat, (predicted: Dog, Pig, Cow, Horse, Sheep,)

Applications WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 24kDa

Cellular localization Secretory protein

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human TIMP-2: 51-150/220

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 [PubMed](#)

Product This gene is a member of the TIMP gene family. The proteins encoded by this gene

Detail

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

[Omim: 188825](#) Human

[SwissProt: P16368](#) Cow

[SwissProt: Q9WUC6](#) Guinea pig

[SwissProt: P16035](#) Human

[SwissProt: P25785](#) Mouse

[SwissProt: Q9TRZ7](#) Rabbit

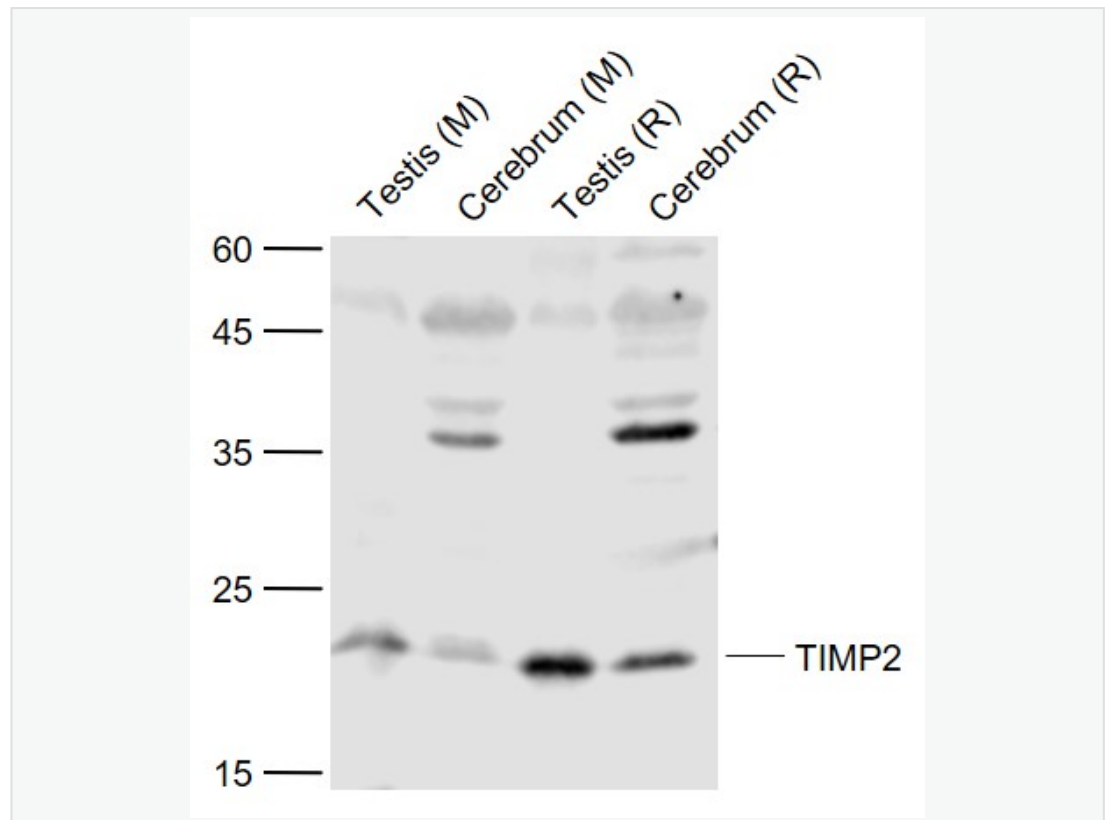
[SwissProt: P30121](#) Rat

[Unigene: 633514](#) Human

[Unigene: 206505](#) Mouse

[Unigene: 10161](#) Rat

**Product
Picture**



Sample:

Lane 1: Testis (Mouse) Lysate at 40 ug

Lane 2: Cerebrum (Mouse) Lysate at 40 ug

Lane 3: Testis (Rat) Lysate at 40 ug

Lane 4: Cerebrum (Rat) Lysate at 40 ug

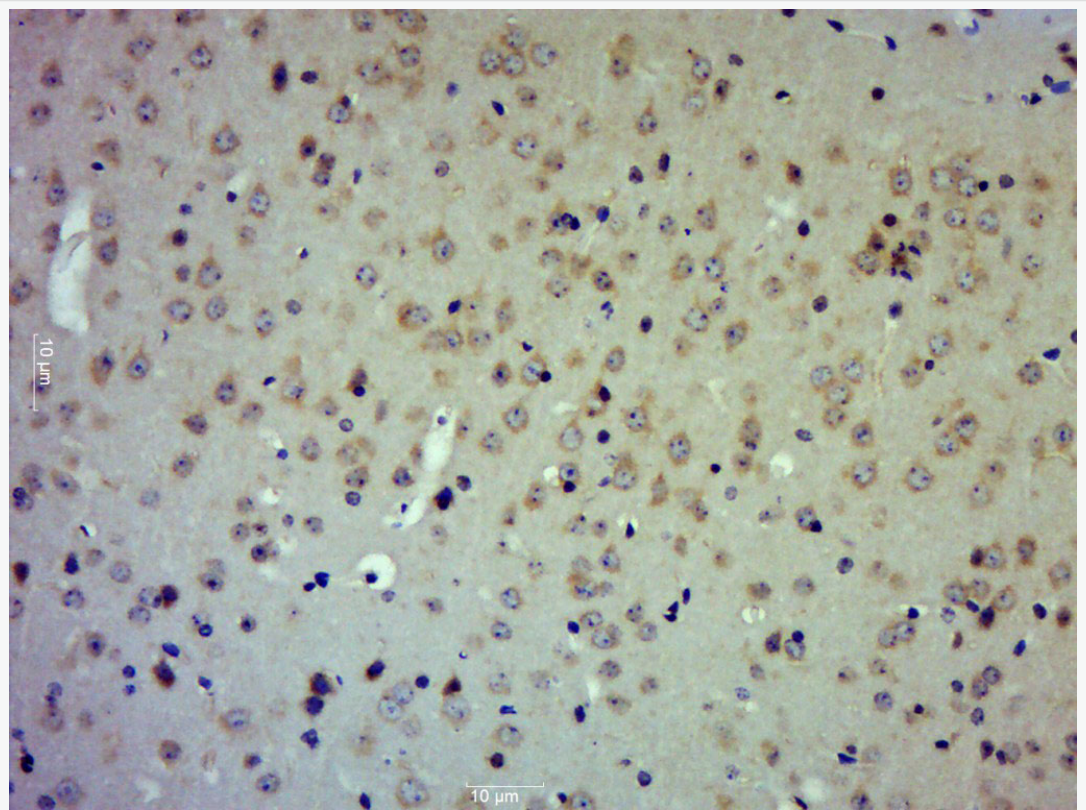
Primary:

Anti- TIMP2 (SL10395R) at 1/1000 dilution

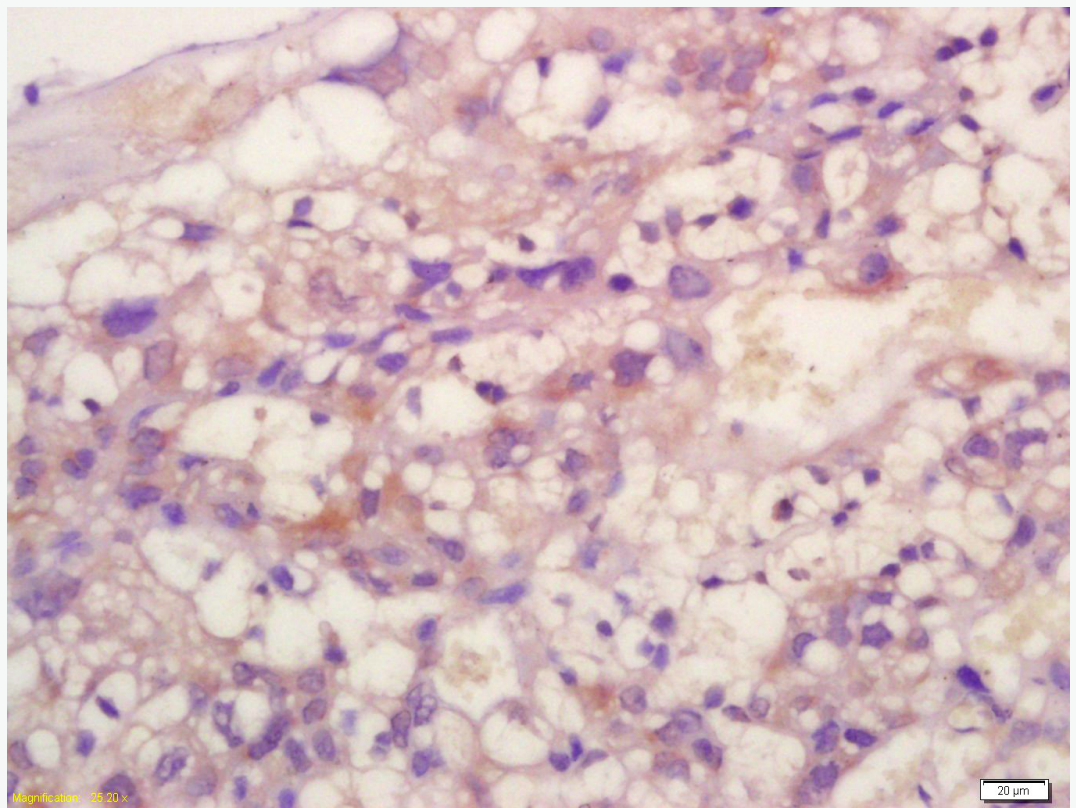
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 22 kD

Observed band size: 22 kD



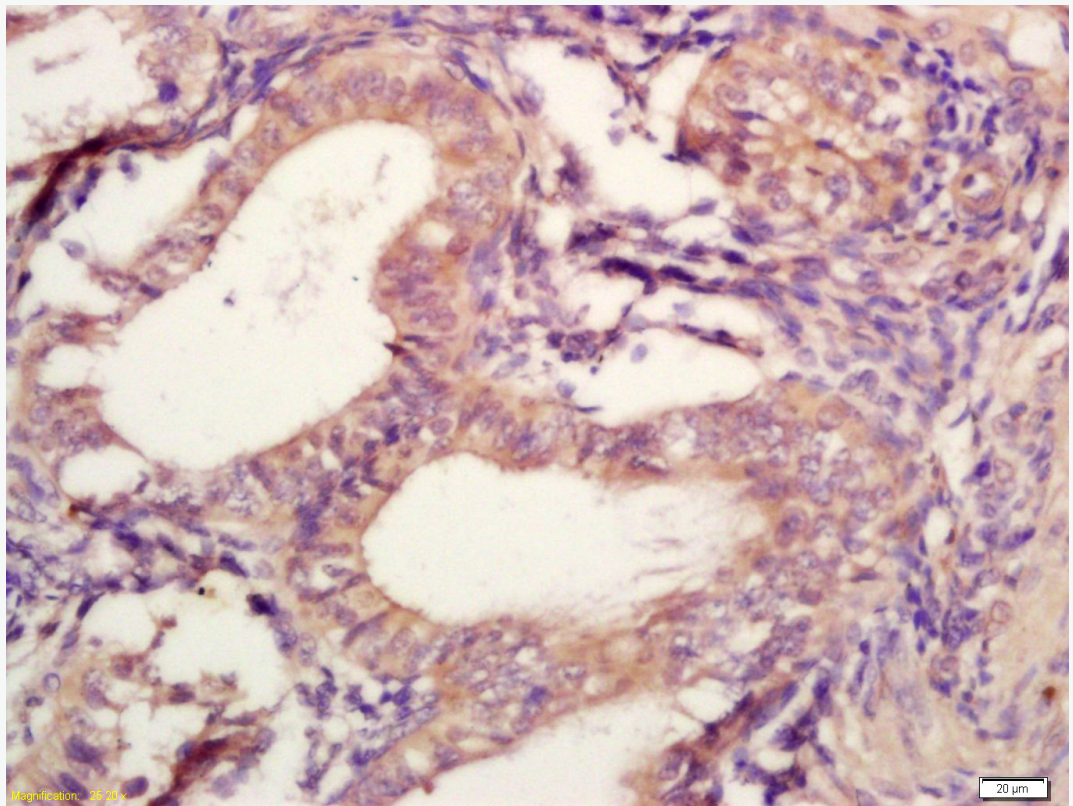
Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TIMP-2) Polyclonal Antibody, 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 (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-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 (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-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