



# TIMP-1 Polyclonal Antibody

|                           |   |
|---------------------------|---|
| <b>Catalog No</b>         | BYab-02796  |
| <b>Isotype</b>            | IgG   |
| <b>Reactivity</b>         | Human;Mouse;Rat;Rabbit  |
| <b>Applications</b>       | IF;WB;IHC;ELISA   |
| <b>Gene Name</b>          | TIMP1   |
| <b>Protein Name</b>       | Metalloproteinase inhibitor 1   |
| <b>Immunogen</b>          | The antiserum was produced against synthesized peptide derived from human TIMP1. AA range:61-110  |
| <b>Specificity</b>        | TIMP-1 Polyclonal Antibody detects endogenous levels of TIMP-1 protein.   |
| <b>Formulation</b>        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.   |
| <b>Source</b>             | Polyclonal, Rabbit,IgG  |
| <b>Purification</b>       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.   |
| <b>Dilution</b>           | IF: 1:50-200 Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.  |
| <b>Concentration</b>      | 1 mg/ml   |
| <b>Purity</b>             | ≥90%  |
| <b>Storage Stability</b>  | -20°C/1 year  |
| <b>Synonyms</b>           | TIMP1; CLGI; TIMP; Metalloproteinase inhibitor 1; Erythroid-potentiating activity; EPA; Fibroblast collagenase inhibitor; Collagenase inhibitor; Tissue inhibitor of metalloproteinases 1; TIMP-1   |
| <b>Observed Band</b>      | 24kD  |
| <b>Cell Pathway</b>       | Secreted .  |
| <b>Tissue Specificity</b> | Detected in rheumatoid synovial fluid (at protein level).   |
| <b>Function</b>           | function:Complexes with metalloproteinases (such as collagenases) and irreversibly inactivates them. 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.,PTM:The activity of TIMP1 is dependent on the presence of disulfide bonds.,similarity:Belongs to the protease inhibitor I35 (TIMP) family.,similarity:Contains 1 NTR domain., |

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**Background**

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, Jul 2008],

**matters needing attention**

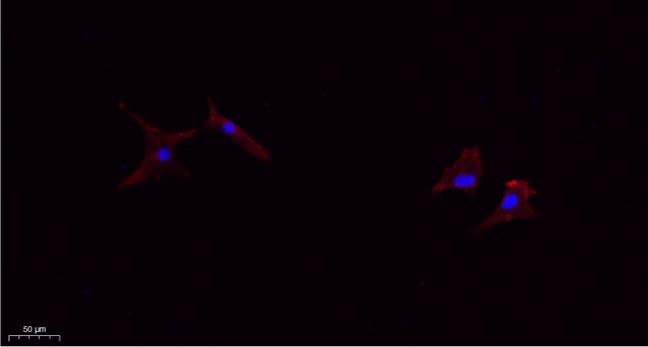
Avoid repeated freezing and thawing!

**Usage suggestions**

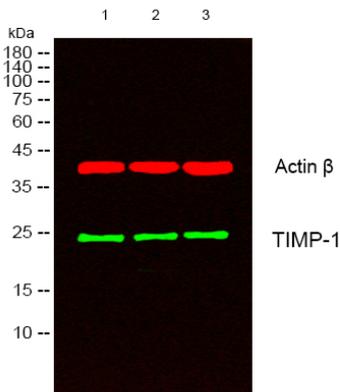
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



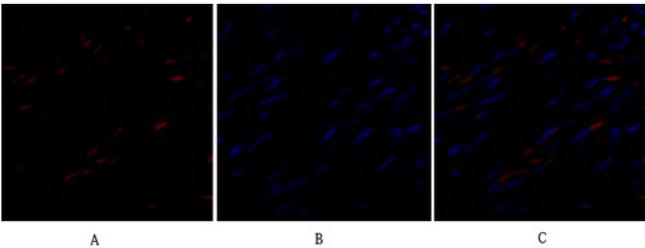
## Products Images



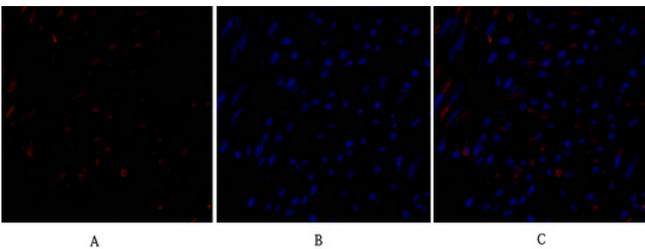
Immunofluorescence analysis of A549. 1, primary Antibody(red) was diluted at 1:200(4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - Alexa Fluor 594 Secondary antibody was diluted at 1:1000(room temperature, 50min).3, Picture B: DAPI(blue) 10min.



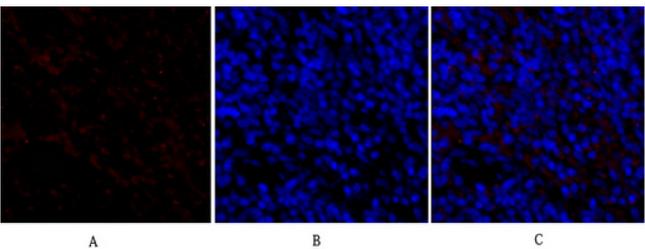
Western blot analysis of lysates from 1) SH-SY5Y, 2) 293, 3) rat brain cells, (Green) primary antibody was diluted at 1:1000, 4° over night, secondary antibody(cat:RS23920)was diluted at 1:10000, 37° 1hour. (Red) Actin β Monoclonal Antibody(5B7) (cat:YM3028) antibody was diluted at 1:5000 as loading control, 4° over night, secondary antibody(cat:RS23710)was diluted at 1:10000, 37° 1hour.



Immunofluorescence analysis of human-uterus tissue. 1, TIMP-1 Polyclonal Antibody(red) was diluted at 1:200(4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



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Immunofluorescence analysis of rat-spleen tissue. 1, TIMP-1 Polyclonal Antibody(red) was diluted at 1:200(4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B

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