

产品名称: TIMP-1 Rabbit Polyclonal Antibody  
产品货号: AP Rab18950



## 产品概述 (Summary)

|                        |                                   |
|------------------------|-----------------------------------|
| 产品名称 (Production Name) | TIMP-1 Rabbit Polyclonal Antibody |
| 描述 (Description)       | Rabbit polyclonal Antibody        |
| 宿主 (Host)              | Rabbit                            |
| 应用 (Application)       | WB,IHC,ICC/IF,ELISA               |
| 种属反应性 (Reactivity)     | Human,Mouse,Rat,Rabbit            |

## 产品性能 (Performance)

|                     |                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------|
| 偶联物 (Conjugation)   | Unconjugated                                                                                      |
| 修饰 (Modification)   | Unmodified                                                                                        |
| 同种型 (Isotype)       | IgG                                                                                               |
| 克隆 (Clonality)      | Polyclonal                                                                                        |
| 形式 (Form)           | Liquid                                                                                            |
| 存放说明 (Storage)      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.          |
| 储存溶液 (Buffer)       | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| 纯化方式 (Purification) | Affinity purification                                                                             |

## 免疫原信息 (Immunogen)

|                        |                                                                                                                                                                                                            |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 基因名 (Gene Name)        | TIMP1<br>TIMP1; CLGI; TIMP; Metalloproteinase inhibitor 1; Erythroid-potentiating activity; EPA; Fibroblast collagenase inhibitor; Collagenase inhibitor; Tissue inhibitor of metalloproteinases 1; TIMP-1 |
| 别名 (Alternative Names) |                                                                                                                                                                                                            |
| 基因 ID (Gene ID)        | 7076.0                                                                                                                                                                                                     |
| 蛋白 ID (SwissProt ID)   | P01033.The antiserum was produced against synthesized peptide derived from human TIMP1. AA range:61-110                                                                                                    |

## 产品应用 (Application)

|                          |                                                                        |
|--------------------------|------------------------------------------------------------------------|
| 稀释比 (Dilution Ratio)     | WB 1:500-1:2000,IHC 1:100-1:500,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000 |
| 蛋白分子量 (Molecular Weight) | 24kDa                                                                  |

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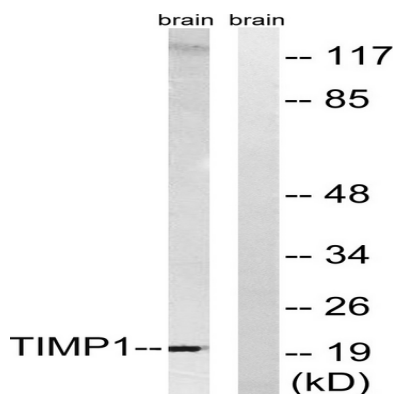
## 研究背景 (Background)

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],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.,

## 研究领域 (Research Area)

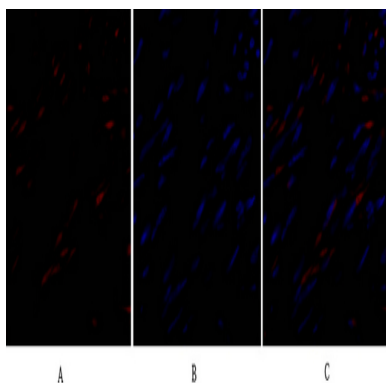
Cardiovascular; Angiogenesis; Adhesion / ECM; Matrix Metalloproteinases; TIMP; Signal Transduction; Cytoskeleton / ECM; Extracellular Matrix; ECM Enzymes; TIMP1 / TIMP2; Cancer; Invasion/microenvironment; Angiogenesis; ECM enzymes; TIMPs; Cancer; Cell Biology; Proteolysis / Ubiquitin; Protease inhibitors; Metalloprotease inhibitors

## 图片 (Image Data)

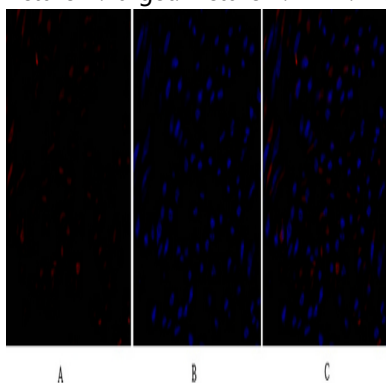


Western blot analysis of lysates from rat brain cells, using TIMP1 Antibody. The lane on the right is blocked with the synthesized peptide.

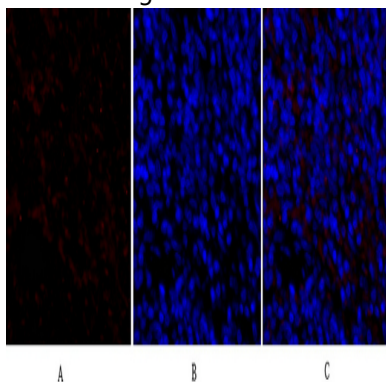
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Immunofluorescence analysis of human-uterus tissue. 1, TIMP-1 Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture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

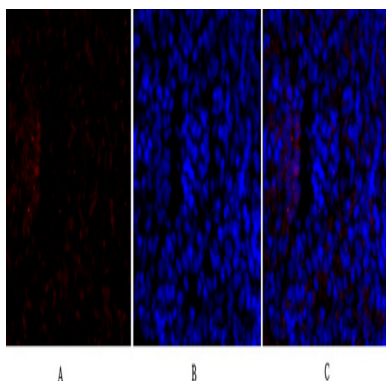


Immunofluorescence analysis of human-uterus tissue. 1, TIMP-1 Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B

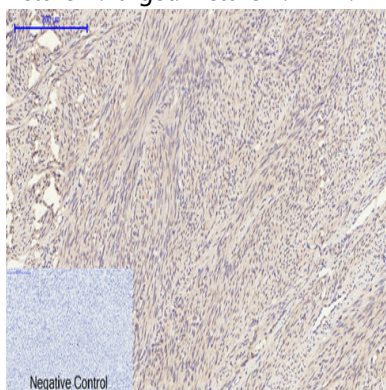


Immunofluorescence analysis of rat-spleen tissue. 1, TIMP-1 Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B

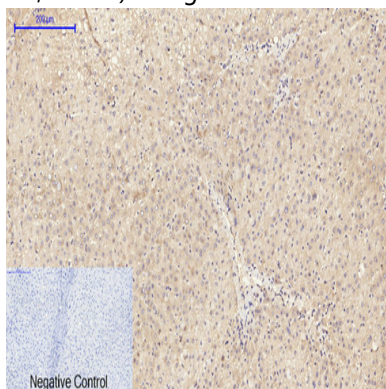
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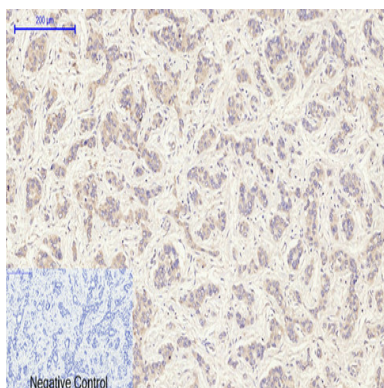


Immunohistochemical analysis of paraffin-embedded Human-uterus tissue. 1, TIMP-1 Polyclonal Antibody was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.

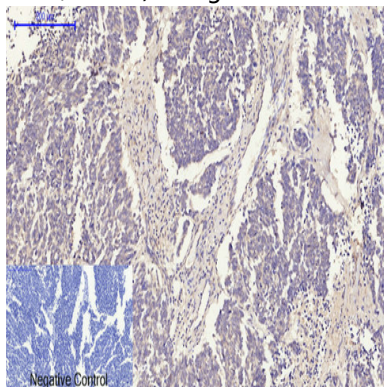


Immunohistochemical analysis of paraffin-embedded Human-liver tissue. 1, TIMP-1 Polyclonal Antibody was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.

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Immunohistochemical analysis of paraffin-embedded Human-liver-cancer tissue. 1, TIMP-1 Polyclonal Antibody was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Human-lung-cancer tissue. 1, TIMP-1 Polyclonal Antibody was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.

### 注意事项 (Note)

For research use only.