

## Anti-TIMP1 Rabbit pAb



WL02342

For Research Use Only. Not For Use In Diagnostic Procedures

## Product Information

<b>Product name</b>	Anti-TIMP1 Rabbit pAb	
<b>Source</b>	Rabbit	
<b>Species reactivity</b>	Human, Mouse, Rat	
<b>Tested applications</b>	Western blot	1:1000-1:2000
	Immunohistochemistry	1:100
	Immunofluorescence	1:200-1:400

*\*Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.*

<b>Molecular Wt.</b>	TIMP-1: 23 kDa
	glycosylated TIMP-1: 28 kDa

<b>Pack size</b>	50/100/200/500/1000 $\mu$ l
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<b>Storage</b>	Store at -20°C. <b>Avoid freeze/thaw cycles.</b>
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<b>Storage buffer</b>	Supplied in 20 mM phosphate (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml
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<b>General Information</b>	BSA, 50% glycerol and less than 0.02% sodium azide
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**Background**

TIMPs are members of the family of tissue inhibitor of matrix metalloproteinases (MMPs) that includes TIMP1, TIMP2, TIMP3, and TIMP4. The main function of TIMPs is their inhibitory effect on MMPs. TIMPs irreversibly inactivate MMPs by direct binding to their catalytic zinc cofactor and resultant inhibition of proteinase function. In addition to MMP inhibition, TIMPs have also been shown to interact with various membrane receptors on the cell surface. Some of these interactions include: TIMP1 with CD63, TIMP2 with  $\alpha$ 3 $\beta$ 1 integrin, and TIMP3 with VEGFR2, all of which result in distinct cellular effects. TIMP-1 has been found to be identical to EPA (erythroid-potential activity).

**Immunogen**

Polyclonal antibody is produced by immunizing animals with a synthetic peptide of TIMP1.

**Purification**

Polyclonal antibody was purified by Protein A affinity chromatography.

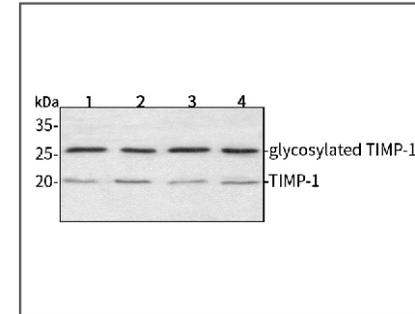
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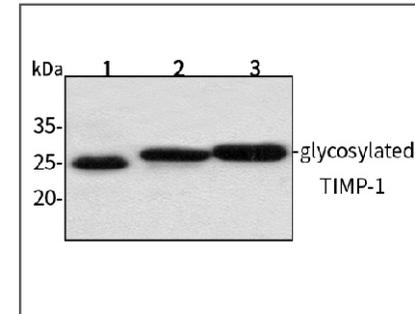
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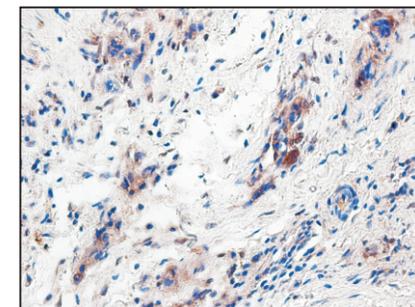
## Product Images

**Western blot-Anti-TIMP1 pAb**

Lane 1: Human HepG2 cell lysate 30 $\mu$ g  
 Lane 2: Human Hela cell lysate 30 $\mu$ g  
 Lane 3: Human BGC-823 cell lysate 30 $\mu$ g  
 Lane 4: Human MGC-803 cell lysate 30 $\mu$ g  
**Separation gel:** 13% polyacrylamide  
**Electrophoresis:** 100V, 4°C, 3h  
**Transmembrane:** 100V, 4°C, 1h  
**Blocking:** 5% w/v nonfat dry milk, 1 $\times$  TBST, at RT with gentle shaking  
**Primary antibody:** 1:1000 in blocking buffer, 4°C, overnight  
**Secondary antibody-HRP:** 1:5000-1:10000 in blocking buffer, RT, 45min  
**Visualization:** ECL, 30s-2min

**Western blot-Anti-TIMP1 pAb**

Lane 1: Mouse heart tissue lysate 30 $\mu$ g  
 Lane 2: Mouse liver tissue lysate 30 $\mu$ g  
 Lane 3: Rat lung tissue lysate 30 $\mu$ g  
**Separation gel:** 13% polyacrylamide  
**Electrophoresis:** 100V, 4°C, 3h  
**Transmembrane:** 100V, 4°C, 1h  
**Blocking:** 5% w/v nonfat dry milk, 1 $\times$  TBST, at RT with gentle shaking  
**Primary antibody:** 1:1000 in blocking buffer, 4°C, overnight  
**Secondary antibody-HRP:** 1:5000-1:10000 in blocking buffer, RT, 45min  
**Visualization:** ECL, 30s-2min

**Immunohistochemistry-Anti-TIMP1 pAb**

**Sample:** Human stomach tissue  
**Antigen retrieval:** pH 9.0 Tris-EDTA buffer  
**Primary antibody:** 1:100, 4°C, overnight  
**Secondary antibody-Biotin:** 1:150, 37°C, 1h  
**Streptavidin-HRP:** 1:200, 37°C, 30min  
**Color Developing:** DAB

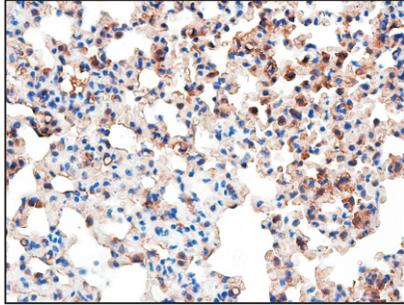
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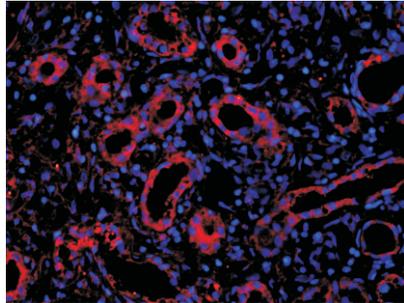
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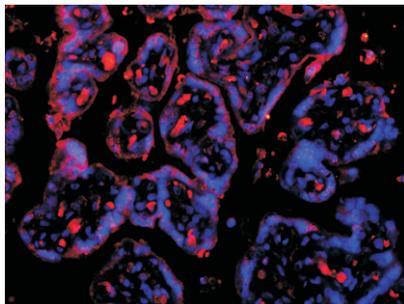
#### Immunohistochemistry-Anti-TIMP1 pAb

**Sample:** Mouse lung tissue  
**Antigen retrieval:** pH 9.0 Tris-EDTA buffer  
**Primary antibody:** 1:100, 4°C, overnight  
**Secondary antibody-Biotin:** 1:150, 37°C, 1h  
**Streptavidin-HRP:** 1:200, 37°C, 30min  
**Color Developing:** DAB



#### Immunofluorescence-Anti-TIMP1 pAb

**Sample:** Human kidney tissue  
**Primary antibody:** 1:200, 4°C, overnight  
**Secondary antibody-CY3:** 1:200, at room temperature, 1h



#### Immunofluorescence-Anti-TIMP1 pAb

**Sample:** Human placenta tissue  
**Primary antibody:** 1:200, 4°C, overnight  
**Secondary antibody-CY3:** 1:200, at room temperature, 1h

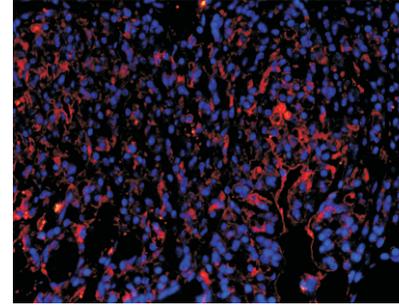
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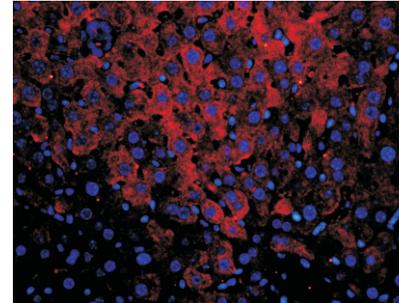
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### Product Images



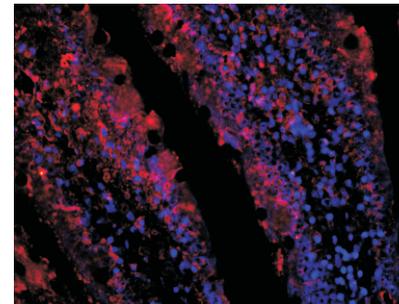
#### Immunofluorescence-Anti-TIMP1 pAb

**Sample:** Mouse colon tissue  
**Primary antibody:** 1:200, 4°C, overnight  
**Secondary antibody-CY3:** 1:200, at room temperature, 1h



#### Immunofluorescence-Anti-TIMP1 pAb

**Sample:** Mouse liver tissue  
**Primary antibody:** 1:200, 4°C, overnight  
**Secondary antibody-CY3:** 1:200, at room temperature, 1h



#### Immunofluorescence-Anti-TIMP1 pAb

**Sample:** Rat intestine tissue  
**Primary antibody:** 1:200, 4°C, overnight  
**Secondary antibody-CY3:** 1:200, at room temperature, 1h

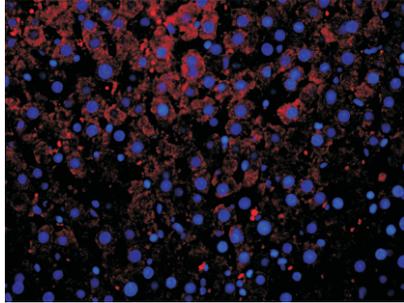
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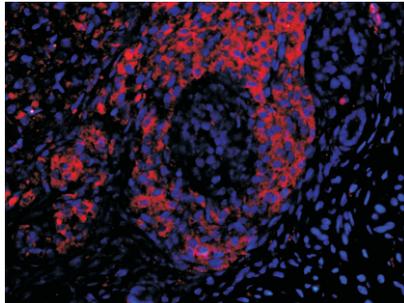


#### Immunofluorescence-Anti-TIMP1 pAb

**Sample:** Rat liver tissue

**Primary antibody:** 1:200, 4°C, overnight

**Secondary antibody-CY3:** 1:200, at room temperature, 1h



#### Immunofluorescence-Anti-TIMP1 pAb

**Sample:** Rat ovary tissue

**Primary antibody:** 1:200, 4°C, overnight

**Secondary antibody-CY3:** 1:200, at room temperature, 1h