

## Polyclonal Antibody to TIMP1 - Purified

<b>Alternate names:</b>	CLGI, EPA, Erythroid-potentiating activity, Fibroblast collagenase inhibitor, Metalloproteinase inhibitor 1, TIMP, TIMP-1, Tissue inhibitor of metalloproteinases
<b>Catalog No.:</b>	BP858
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	1.0 mg/ml (OD280)
<b>Background:</b>	TIMP-1 is expressed by a wide range of cells including microvascular endothelial cells, smooth muscle cells, mesangial cells and some fibroblasts. TIMP-1 inhibits matrix metalloproteinase activity by forming complexes via reversible non covalent binding. It is reported to be involved in the control of angiogenesis and tumour growth.
<b>Uniprot ID:</b>	<a href="#">P01033</a>
<b>NCBI:</b>	<a href="#">NP_003245.1</a>
<b>GeneID:</b>	<a href="#">7076</a>
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	Human tissue inhibitor of Metalloproteinase 1 (TIMP-1)
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction. <b>Buffer System:</b> PBS, containing 0.02% Sodium Azide as a preservative.
<b>Applications:</b>	Immunohistochemistry on Paraffin (1-5 µg/ml) and Frozen Sections. Western blot (5-10 µg/ml). ELISA (2.5-10 µg/ml). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	Recognises native and denatured TIMP, as well as TIMP in and out of enzyme/inhibitor complex. This antibody is not neutralizing. <b>Species:</b> Human, Rabbit, Sheep, Rat, Horse, Ferret and Cow. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: One year from despatch.
<b>Product Citations:</b>	<b>Purchased from Acris:</b> 1. Rached E, Hoffmann D, Blumbach K, Weber K, Dekant W, Mally A. Evaluation of putative biomarkers of nephrotoxicity after exposure to ochratoxin a in vivo and in vitro. Toxicol Sci. 2008 Jun;103(2):371-81. doi: 10.1093/toxsci/kfn040. Epub 2008 Feb 27. PubMed PMID: 18308701. 2. Sieber M, Hoffmann D, Adler M, Vaidya VS, Clement M, Bonventre JV, et al. Comparative

analysis of novel noninvasive renal biomarkers and metabonomic changes in a rat model of gentamicin nephrotoxicity. Toxicol Sci. 2009 Jun;109(2):336-49. doi: 10.1093/toxsci/kfp070. Epub 2009 Apr 6. PubMed PMID: 19349640.

**Protocols:**

**Staining of Paraffin Embedded Sections:**

For normal soft tissues, bake slides for one hour at 60°C. Bone requires longer baking time (overnight).

Deparaffinize tissues in xylene, and rehydrate through graded alcohols.

Rinse with distilled water.

Quench endogenous peroxidase in 3% hydrogen peroxide for 10 minutes.

Rinse in PBS

Microwave in a 0.01 M citrate buffer. Rinse in PBS and digest in 0.1% trypsin at 37°C for 20 minutes. Rinse again in PBS.

Block non-specific binding with 1/20 sheep serum.

Rinse with PBS

Drain slides and incubate overnight at 4°C with appropriate dilution of BP858.

Rinse with PBS

Incubate with appropriate dilution of sheep anti rabbit secondary antibody.

Rinse with PBS

Incubate with streptavidin HRP

Rinse with PBS

Detect colour reaction with AEC chromogen for 5 minutes

Rinse with distilled water

Counterstain with Meyers Hematoxylin

Rinse with distilled water

Blue with ammonia water

Rinse with distilled water

Coverslip with aqueous montin