

## 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>	AP15821PU-S
<b>Quantity:</b>	0.1 ml
<b>Concentration:</b>	1.4 mg/ml (Lot specific)
<b>Background:</b>	<p>Tissue inhibitor of metalloproteinases 1 (TIMP1) and Tissue inhibitor of metalloproteinases 2 (TIMP 2) have similar properties, specifically in inhibiting enzymes of the matrix metalloproteinase family, and are thought to be of great importance in the maintenance of connective tissue integrity. TIMP1 forms a complex of 1:1 stoichiometry with activated interstitial collagenases, activated stromelysin, active form of 72kDa Type IV collagenase (also known as MMP2 or gelatinase A), and latent and active forms of 92kDa Type IV collagenase (also known as MMP0 or gelatinase B).</p> <p>TIMPs inhibit the proteolytic invasiveness of tumour cells and normal placental trophoblast cells.</p> <p>TIMP1 is produced in low (pg/ml) levels by most cell types. Treatment of cells with the phorbol ester TPA stimulates production of TIMP1 in some cell types, but the low protein levels produced often require concentration of cell culture media to visualize the bands by Western Blotting.</p>
<b>Uniprot ID:</b>	<a href="#">P01033</a>
<b>NCBI:</b>	<a href="#">9606</a>
<b>GeneID:</b>	<a href="#">7076</a>
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	A synthetic peptide from the N-terminal half of Human TIMP-1.
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction <b>Purification:</b> Affinity Chromatography <b>Buffer System:</b> 10mM PBS, pH 7.4 <b>Preservatives:</b> 0.09% Sodium Azide <b>Stabilizers:</b> 1% BSA
<b>Applications:</b>	<b>Western blot</b> (Recommended but Not tested): 2-4 µg/ml for 2hrs at RT.) <b>Immunohistochemistry on Paraffin Sections:</b> 1/100 for 10 min at RT. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min. Slides must be washed in between steps. Rinse slides with PBS/0.05% Tween. <b>Recommended Positive Control:</b> Conditioned, serum-free medium from TPA-treated human fetal lung cell line HFL-Bladder, Breast, Colon Carcinoma, Ovarian Carcinoma.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Molecular Weight:** 28.5kDa

**Specificity:** This antibody recognizes TIMP-1.

**Cellular Localization:** Cytoplasmic.

**Species Reactivity:** Tested: Human.

**Expected from sequence similarity:** Pig.

**Storage:** Store the antibody undiluted at 2-8°C.

**DO NOT FREEZE!**

Shelf life: one year from despatch.

**Pictures:** Human colon ca. stained with Anti-TIMP-1 antibody (Cat.-No AP15821PU).

