

## Product datasheet for **AP20507PU-N**

### TIMP3 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	<b>Western blot:</b> 1/500-1/1000.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of TIMP-3 protein. (region surrounding asn119)
Formulation:	Phosphate Buffered Saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% by SDS-PAGE). Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen.
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~25 kDa
Gene Name:	TIMP metalloproteinase inhibitor 3
Database Link:	<a href="#">Entrez Gene 21859 Mouse</a> <a href="#">Entrez Gene 25358 Rat</a> <a href="#">Entrez Gene 7078 Human</a> <a href="#">P35625</a>



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**Background:**

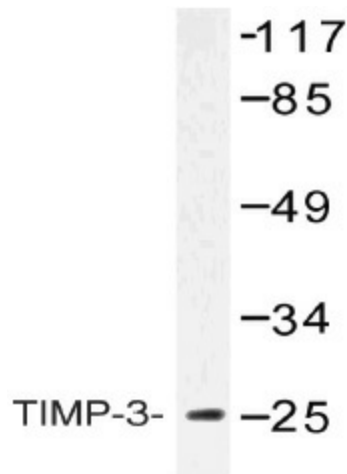
The tissue inhibitors of metalloproteinases (TIMPs) are naturally occurring proteins that specifically inhibit matrix metalloproteinases and regulate extracellular matrix turnover and tissue remodeling by forming tightly bound inhibitory complexes with the MMPs. Thus, TIMPs maintain the balance between matrix destruction and formation. An imbalance between MMPs and the associated TIMPs may play a significant role in the invasive phenotype of malignant tumors. TIMP proteins share several structural features including six loops held in place by six disulfide bonds arranged in three knotlike structures. The N terminal region is necessary for inhibitory activity. The N terminus of each TIMP contains a consensus sequence (VIRAK) and each TIMP is translated with a 29 amino acid leader sequence that is cleaved to produce the mature protein. The C terminal regions are divergent and enhance the inhibition selectivity and binding efficiency. Although the TIMP proteins share high homology, following secretion they are localized extracellularly either in soluble form (TIMP1, TIMP2, and TIMP4) or bound to extracellular matrix components (TIMP3).

**Synonyms:**

Protein MIG-5, TIMP-3

**Protein Families:**

Druggable Genome, Secreted Protein

**Product images:**

Western blot (WB) analysis of TIMP-3 antibody (Cat.-No. AP20507PU-N) in extracts from HUVEC cells.