

For Research Use Only

# TIMP1 Polyclonal antibody

Catalog Number: 16644-1-AP

Featured Product

94 Publications



## Basic Information

<b>Catalog Number:</b> 16644-1-AP	<b>GenBank Accession Number:</b> BC000866	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 500 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 7076	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IF/ICC 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P01033	
<b>Isotype:</b> IgG	<b>Full Name:</b> TIMP1 metalloproteinase inhibitor 1	
<b>Immunogen Catalog Number:</b> AG10006	<b>Calculated MW:</b> 23 kDa	
	<b>Observed MW:</b> 23 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b> WB : HL-60 cells, HT-29 cells, HeLa cells, SKOV-3 cells
<b>Cited Applications:</b> WB, IHC, IF	<b>IF/ICC :</b> HT-29 cells,
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human, rabbit, bovine	

## Background Information

TIMP1 is a member of the family of matrix metalloproteinase inhibitors, which contains four members (TIMP1, TIMP2, TIMP3, and TIMP4). Tissue inhibitors of metalloproteinases (TIMPs) are multifaceted molecules that exhibit properties beyond their classical proteinase inhibitory function. TIMP1 has several MMP-independent functions such as modulation of angiogenesis, promotion of cell proliferation, and inhibition of apoptosis. TIMP1 plays important role in cell cycle regulation and cancer progression. Recently, clinical studies have shown that the aberrant expression of TIMP1 is associated with an unfavorable prognosis in a series of tumors, such as gastric cancer, papillary thyroid carcinoma, cutaneous melanoma and breast cancer. In pregnancy, TIMP1 plays a regulatory role in the process of implantation, particularly the cytotrophoblast invasion of the uterine endometrium. In pregnancy, TIMP1 plays a regulatory role in the process of implantation, particularly the cytotrophoblast invasion of the uterine endometrium.

## Notable Publications

Author	Pubmed ID	Journal	Application
Cheng-Chieh Fang	30217986	Sci Rep	IHC
Xiao-Xiao He	30219235	Biochem Biophys Res Commun	WB
Henrique Bregolin Dias	31509566	PLoS One	WB

## Storage

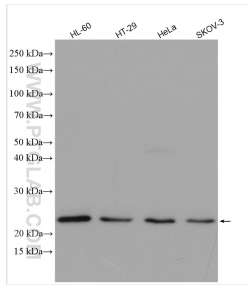
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

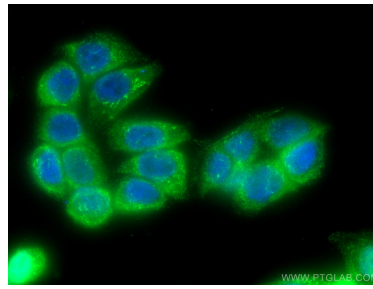
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 16644-1-AP (TIMP1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HT-29 cells using TIMP1 antibody (16644-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).