

For Research Use Only

# TIMP1 Polyclonal antibody

Catalog Number: 10753-1-AP

36 Publications



## Basic Information

### Catalog Number:

10753-1-AP

### Size:

150ul, Concentration: 413 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1146

### GenBank Accession Number:

BC007097

### GeneID (NCBI):

7076

### UNIPROT ID:

P01033

### Full Name:

TIMP metalloproteinase inhibitor 1

### Calculated MW:

23 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

IHC: 1:50-1:500

IF/ICC: 1:50-1:500

## Applications

### Tested Applications:

IF, IHC, ELISA

### Cited Applications:

IHC, IF

### Species Specificity:

human

### Cited Species:

human, mouse, rat

### Positive Controls:

IHC : human breast cancer tissue,

IF/ICC : HepG2 cells,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Tissue Inhibitor of Metalloproteinases-1 (TIMP1) is a naturally occurring protein in the human organism regulating the activity of matrix metalloproteinases (MMPs). TIMP1 encodes a 931 base-pair mRNA and a 207 amino acid protein. Overexpression of TIMP1 can lead to a substantially increase of genes involved in proliferation, apoptosis and signal transduction. In addition, TIMP1 was found to decrease tumor cell sensitivity to multiple anticancer drugs by activation of downstream pathways and exhibited anti-apoptotic activity. Specifically, the TIMP1 could degrade cyclinB1 and activate the NF-κβ signaling pathway to protect breast cancer cells against chemotherapy-induced cell death.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jen-Jie Lin	25222667	Mar Drugs	
Yuqing Mao	26378522	Int J Mol Sci	IHC
Li Shang	25337715	PLoS One	IHC

## 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

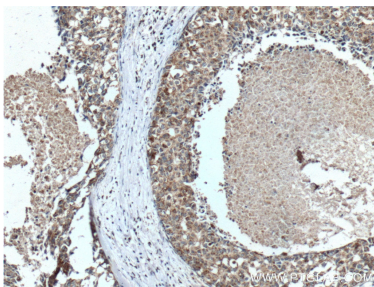
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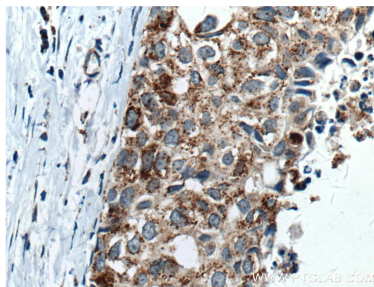
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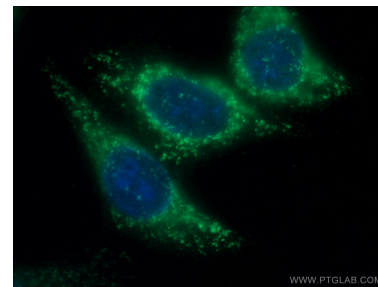
## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10753-1-AP (TIMP1 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10753-1-AP (TIMP1 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 10753-1-AP (TIMP1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).