

TIMP1 Polyclonal antibody

Catalog Number: 10753-1-AP

35 Publications

Basic Information

Catalog Number: 10753-1-AP	GenBank Accession Number: BC007097	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 413 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 7076	Recommended Dilutions: IHC 1:50-1:500 IF 1:50-1:500
Source: Rabbit	Full Name: TIMP metalloproteinase inhibitor 1	
Isotype: IgG	Calculated MW: 23 kDa	
Immunogen Catalog Number: AG1146		

Applications

Tested Applications: IF, IHC, ELISA	Positive Controls: IHC : human breast cancer tissue, IF : HepG2 cells,
Cited Applications: IF, IHC	
Species Specificity: human	
Cited Species: human, rat, mouse	
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

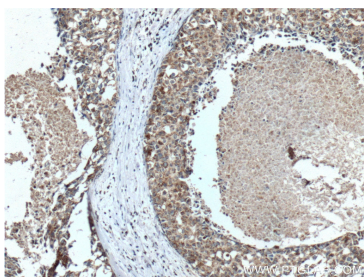
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
 Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

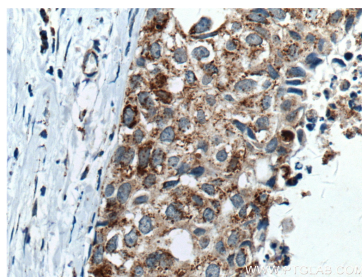
For technical support and original validation data for this product please contact:
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
 E: proteintech@ptglab.com
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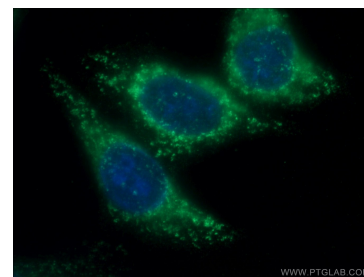
Selected Validation Data



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 AffiniPure Goat Anti-Rabbit IgG(H+L).