TIMP1 Polyclonal antibody

Basic Information

Catalog Number: 10753-1-AP

Size: 150μL. 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

Full Name: TIMP metallopeptidase inhibitor 1

Calculated MW: 23 kDa

Purification Method: Antigen affinity purification

Recommended Dilutions:
- IHC: 1:50-1:500
- IF: 1:50-1:500

Applications

Tested Applications: IF, IHC, ELISA

Cited Applications: IF, IHC

Species Specificity: human

Cited Species: human, mouse, rat

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-κB signaling pathway to protect breast cancer cells against chemotherapy-induced cell death.

Notable Publications

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<td>Yuqing Mao</td>
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<td>Li Shang</td>
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Storage

Storage: Store at -20°C. Stable for one year after shipment.

Storage Buffer: PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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.
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 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).