

For Research Use Only

TIMP1 Polyclonal antibody

Catalog Number: 16644-1-AP **50 Publications**



Basic Information

Catalog Number: 16644-1-AP	GenBank Accession Number: BC000866	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop and 247 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 7076	Recommended Dilutions: WB 1:1000-1:6000 IF 1:200-1:800
Source: Rabbit	Full Name: TIMP metalloproteinase inhibitor 1	
Isotype: IgG	Calculated MW: 23 kDa	
Immunogen Catalog Number: AG10006	Observed MW: 23 kDa	

Applications

Tested Applications: IF, WB, ELISA	Positive Controls: WB : HL-60 cells, HT-29 cells, HeLa cells
Cited Applications: IF, IHC	IF : HT-29 cells,
Species Specificity: human	
Cited Species: bovine, human, rabbit	

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

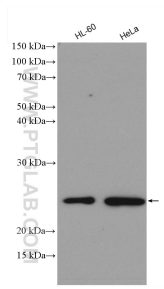
Storage

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

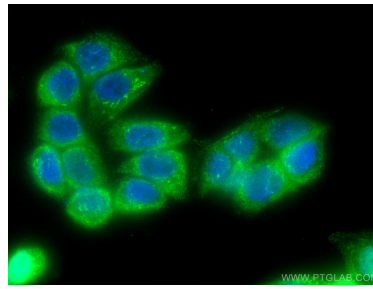
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 16644-1-AP (TIMP1 antibody) at dilution of 1:3000 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).