

For Research Use Only

TIMP2 Polyclonal antibody

Catalog Number: 17353-1-AP

43 Publications



Basic Information

Catalog Number:

17353-1-AP

Size:

150ul, Concentration: 700 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG10051

GenBank Accession Number:

BC052605

GeneID (NCBI):

7077

UNIPROT ID:

P16035

Full Name:

TIMP metalloproteinase inhibitor 2

Calculated MW:

220 aa, 24 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IHC: 1:50-1:500

Applications

Tested Applications:

IHC, ELISA

Cited Applications:

IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, bovine

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

Positive Controls:

IHC: human kidney tissue, mouse lung tissue, human prostate cancer tissue

Background Information

The TIMPs are natural highly specific endogenous inhibitors of MMPs. Human TIMP family consists of four 21-28 kDa proteins known as TIMP1, TIMP2, TIMP3, and TIMP4 encoded by four paralogous genes. TIMPs are vital to the maintenance of ECM homeostasis primarily through their MMP inhibitory functions. TIMP2, a member of the TIMP family, regulates the proteolytic activity of all MMPs and is involved in cell differentiation, growth, migration, angiogenesis, and apoptosis. Urinary TIMP2 has been recently recognized as an early biomarker to predict Acute kidney injury (AKI) in critically ill patients.

Notable Publications

Author	Pubmed ID	Journal	Application
Xiao-Xiao He	30219235	Biochem Biophys Res Commun	
Jen-Jie Lin	25222667	Mar Drugs	
Qianqian Zhang	36310322	Oncogene	

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

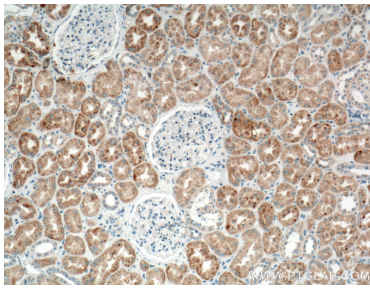
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

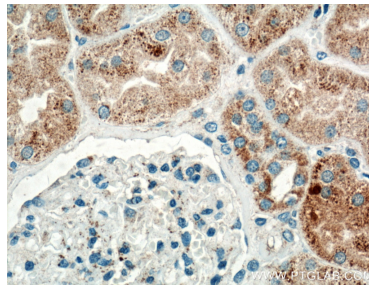
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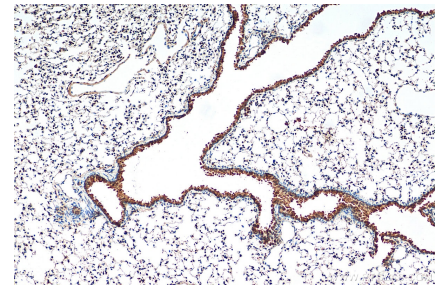
Selected Validation Data



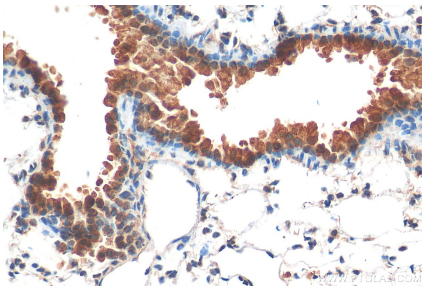
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 17353-1-AP (TIMP-2 antibody) at dilution of 1:200 (under 10x lens).



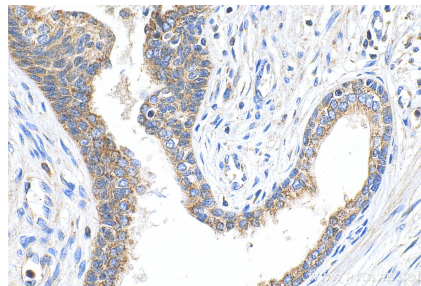
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 17353-1-AP (TIMP-2 antibody) at dilution of 1:200 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 17353-1-AP (TIMP-2 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 17353-1-AP (TIMP-2 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 17353-1-AP (TIMP-2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).