

For Research Use Only

# MMP13 Polyclonal antibody

Catalog Number: 18165-1-AP

Featured Product

587 Publications



## Basic Information

### Catalog Number:

18165-1-AP

### Concentration:

800 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG12653

### GenBank Accession Number:

BC074808

### GeneID (NCBI):

4322

### UNIPROT ID:

P45452

### Full Name:

matrix metalloproteinase 13

### Calculated MW:

471 aa, 54 kDa

### Observed MW:

65-70 kDa, 50-55 kDa, 40 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:1000-1:4000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:50-1:500

IF/ICC: 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, CoIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, pig, rabbit, zebrafish, 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:

**WB**: HeLa cells, MCF-7 cells, mouse liver tissue, rat liver tissue, HepG2 cells, MDA-MB-453s cells

**IP**: MCF-7 cells,

**IHC**: human liver tissue, human hepatocirrhosis tissue, mouse liver tissue, human liver cancer tissue, human breast cancer tissue

**IF/ICC**: MCF-7 cells,

## Background Information

MMP-13(Matrix metalloproteinase-13), cleaves type I collagen and was previously thought to be the rodent analogue of human interstitial MMP-1. MMP-13 is found in hypertrophic and calcifying cartilage of mammalian growth plate. The bands seen with rat MMP-13 are consistent with a 59-kDa latent form and a 43-kDa active form reported for this enzyme, along with a smaller band at approximately 30 kDa(PMID:10771523). It also can be detected 3 bands that the glycosylated proMMP-13 (70 kDa), unglycosylated proform (55 kDa), and active MMP-13 enzyme (40kDa) by western blot(PMID:1832263).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yangfei Yi	36178080	Orthop Surg	WB,IHC
Yanlin Cao	34593020	Arthritis Res Ther	WB
Yangke Cai	29097832	Dis Markers	WB

## 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

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

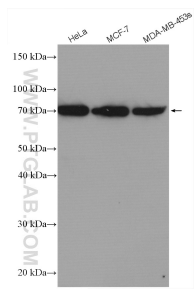
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

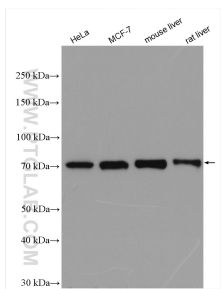
W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

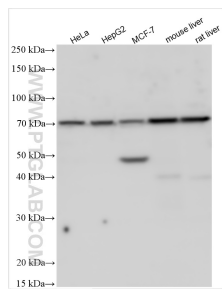
Selected Validation Data



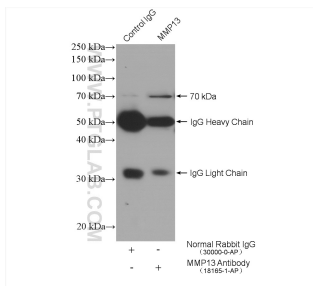
Various lysates were subjected to SDS PAGE followed by western blot with 18165-1-AP (MMP13 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



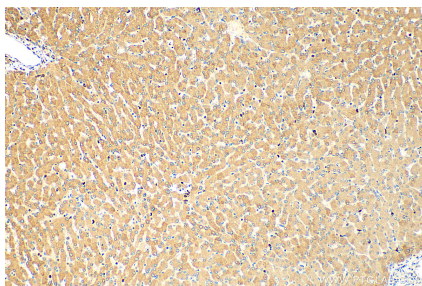
Various lysates were subjected to SDS PAGE followed by western blot with 18165-1-AP (MMP13 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



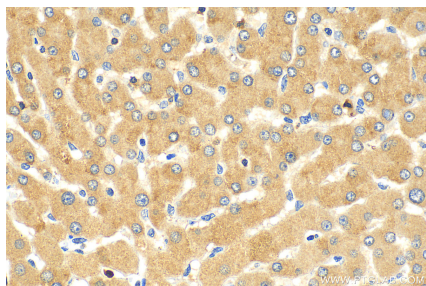
Various lysates were subjected to SDS PAGE followed by western blot with 18165-1-AP (MMP13 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



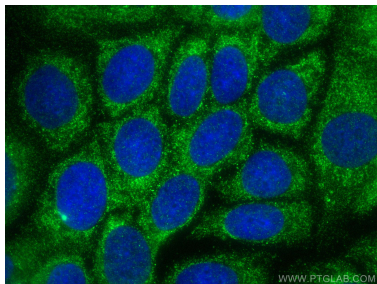
IP result of anti-MMP13 (IP:18165-1-AP, 4ug; Detection:18165-1-AP 1:300) with MCF-7 cells lysate 2480 ug.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 18165-1-AP (MMP13 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 liver tissue slide using 18165-1-AP (MMP13 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 Methanol) fixed MCF-7 cells using MMP13 antibody (18165-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).