

# MMP14 / MT1-MMP Polyclonal antibody

Catalog Number: 14552-1-AP

32 Publications

## Basic Information

## Catalog Number:

14552-1-AP

## Concentration:

550 ug/ml

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG5965

## GenBank Accession Number:

BC064803

## GeneID (NCBI):

4323

## UNIPROT ID:

P50281

## Full Name:

matrix metalloproteinase 14  
(membrane-inserted)

## Calculated MW:

66 kDa

## Observed MW:

66 kDa, 45-50 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:500-1:1000

IF/ICC 1:200-1:800

## Applications

## Tested Applications:

WB, IF/ICC, ELISA

## Cited Applications:

WB, IHC, IF

## Species Specificity:

human, mouse, rat

## Cited Species:

human, mouse, rat

## Positive Controls:

WB : A549 cells, human colon tissue

IF/ICC : HepG2 cells, COLO 320 cells

## Background Information

MMP14, also named as MT1-MMP, is a key matrix metalloproteinase (MMP) family member which plays a crucial role in tumor growth, invasion and metastasis. MT1-MMP is a cell membrane-bound proteinase, and it enhances degradation of collagen IV, a major component of the basement membrane, by forming a complex with tissue inhibitor of metalloproteinase-2 (TIMP-2) to activate pro-MMP-2. MT1-MMP can influence venous invasion, intrahepatic metastasis, and patient outcome in hepatocellular carcinoma (HCC). MT1-MMP was reported to be present in centromere and could lead to chromosome instability in MDCK cells, indicating that MT1-MMP may have more novel functions in the intracellular compartments. In western blotting, pro-MMP14 (65 kDa) and MMP14 (51 kDa) bands showed with the truncated MMP14 (45, 42, 35, 20 kDa) forms (PMID:12097451).

## Notable Publications

Author	Pubmed ID	Journal	Application
Junqing Guo	29499931	Mol Ther Nucleic Acids	WB
Baoxu Lin	34819020	BMC Genomics	WB
Nina Kreße	35682709	Int J Mol Sci	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

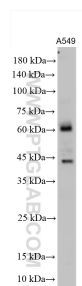
For technical support and original validation data for this product please contact:

T: 4006900926

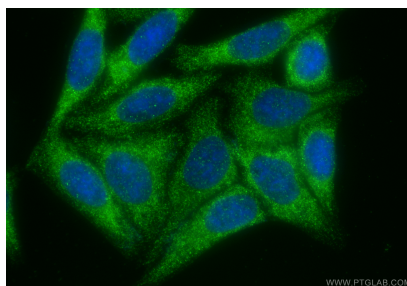
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

## Selected Validation Data



A 549 cell lysates were subjected to SDS PAGE followed by western blot with 14552-1-AP (MMP14 / MT1-MMP antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using MMP14 / MT1-MMP antibody (14552-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).