

For Research Use Only

MMP14 / MT1-MMP Polyclonal antibody

Catalog Number: 14552-1-AP

36 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, ELISA

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
Bin Chen	29285153	Exp Ther Med	ELISA
Junqing Guo	29499931	Mol Ther Nucleic Acids	WB
Baoxu Lin	34819020	BMC Genomics	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:

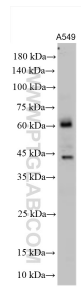
T: 4006900926

E: Proteintech-CN@ptglab.com

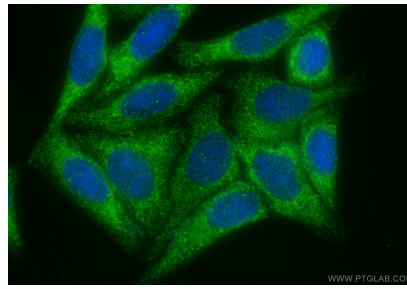
W: ptgcn.com

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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).