

For Research Use Only

# MMP-9 (N-terminal) Polyclonal antibody, PBS Only

Catalog Number: 10375-2-PBS

Featured Product



## Basic Information

Catalog Number:

10375-2-PBS

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0552

GenBank Accession Number:

BC006093

GeneID (NCBI):

4318

UNIPROT ID:

P14780

Full Name:

matrix metalloproteinase 9  
(gelatinase B, 92kDa gelatinase,  
92kDa type IV collagenase)

Calculated MW:

707 aa, 78 kDa

Observed MW:

92 kDa, 67 kDa

Purification Method:

Antigen affinity purification

## Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

Species Specificity:

human

## Background Information

Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, tissue remodeling, and disease processes, such as arthritis or metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. Matrix metalloproteinase 9 (gelatinase B, 92 kDa gelatinase, 92 kDa type IV collagenase) (MMP9, synonyms: GELB, CLG4B) degrades collagens type IV and V. Studies in rhesus monkeys suggest that MMP9 is involved in IL-8-induced mobilization hematopoietic progenitor cells from bone marrow, and murine studies suggest a role in tumor-associated tissue remodeling. The pro-MMP9 is 92 kDa, and it can be detected a processed form of 68 kDa. This protein can exist as a dimer of 180 kDa (PMID:7492685).

## Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only, pH7.3

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

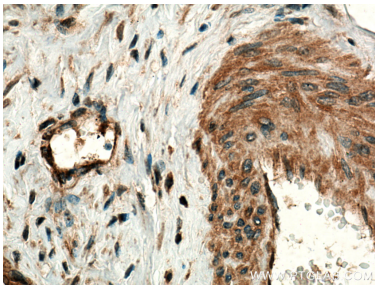
T: 4006900926

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

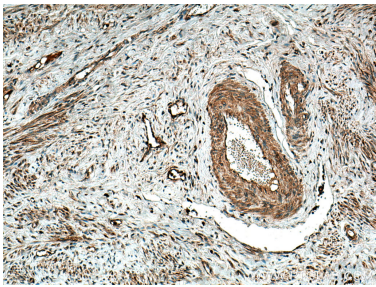
W: [ptgcn.com](http://ptgcn.com)

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

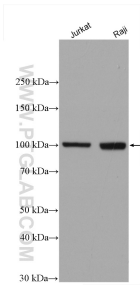
Selected Validation Data



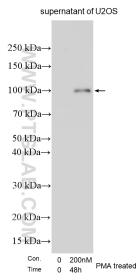
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 10375-2-AP (MMP9 (N-terminal) antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 10375-2-PBS in a different storage buffer formulation.



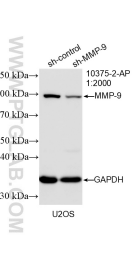
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 10375-2-AP (MMP9 (N-terminal) antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 10375-2-PBS in a different storage buffer formulation.



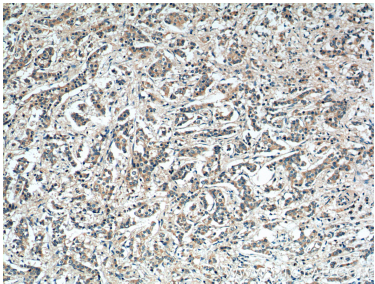
Various lysates were subjected to SDS PAGE followed by western blot with 10375-2-AP (MMP9 (N-terminal) antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 10375-2-PBS in a different storage buffer formulation.



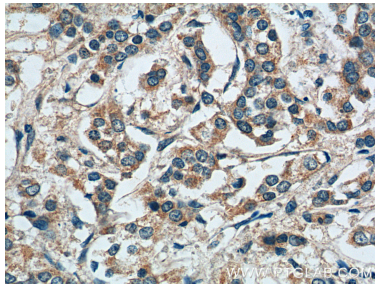
Various lysates were subjected to SDS PAGE followed by western blot with 10375-2-AP (MMP-9 (N-terminal) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 10375-2-PBS in a different storage buffer formulation.



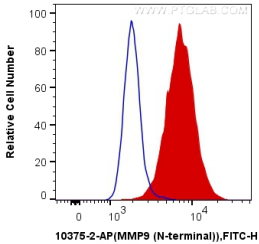
WB result of MMP-9 (N-terminal) antibody (10375-2-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-MMP-9 (N-terminal) transfected U2OS cells. This data was developed using the same antibody clone with 10375-2-PBS in a different storage buffer formulation.



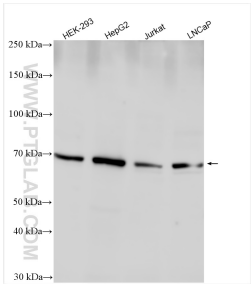
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10375-2-AP (MMP9 (N-terminal) antibody) at dilution of 1:200 (under 10x lens). This data was developed using the same antibody clone with 10375-2-PBS in a different storage buffer formulation.



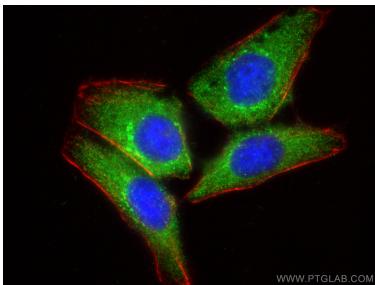
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10375-2-AP (MMP9 (N-terminal) antibody) at dilution of 1:200 (under 40x lens). This data was developed using the same antibody clone with 10375-2-PBS in a different storage buffer formulation.



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug Anti-Human MMP9 (N-terminal) (10375-2-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer. This data was developed using the same antibody clone with 10375-2-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 10375-2-AP (MMP9 (N-terminal) antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 10375-2-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using MMP9 (N-terminal) antibody (10375-2-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red). This data was developed using the same antibody clone with 10375-2-PBS in a different storage buffer formulation.