For Research Use Only

# MMP-9 (Middle) Polyclonal antibody

Catalog Number:27306-1-AP 59 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

## Basic Information

Catalog Number:
27306-1-AP

Concentration:
350 ug/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG26132

GenBank Accession Number:
BC006093

GeneID (NCBI):
4318

UNIPROT ID:
P14780

Full Name:
matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)

Calculated MW:
707 aa, 78 kDa

Observed MW:
92 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500

## Applications

Tested Applications:
WB, IHC, IP, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse

Cited Species:
human, mouse, rat

***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 : human saliva tissue,

IP : human saliva tissue,

IHC : human tonsillitis tissue, human lung cancer tissue, human spleen tissue, mouse liver tissue

## 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, 92kDa gelatinase, 92kDa 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 or 82 kDa. This protein can exist as a dimer of 180 kDa (PMID:7492685).

## Notable Publications

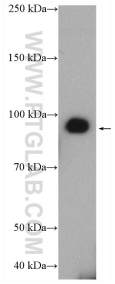
| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| XIAOYUE FENG | 34528694 | Oncol Rep | WB |
| WANG Xiao-He | 34688464 | Chin J Nat Med | WB |
| Cong Xu | 34868365 | Oncol Lett | WB |

## Storage

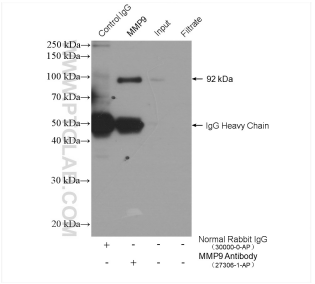
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

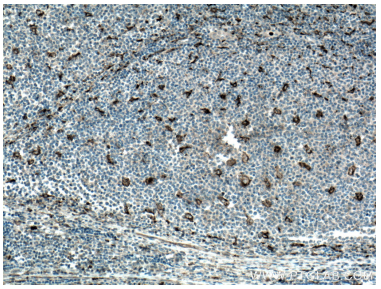
## Selected Validation Data



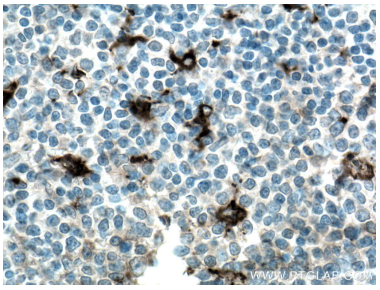

human saliva were subjected to SDS PAGE followed by western blot with 27306-1-AP (MMP9 (Middle) antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



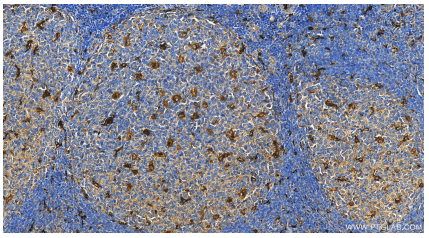

IP result of anti-MMP9 (Middle) (IP:27306-1-AP, 4ug; Detection:27306-1-AP 1:300) with human saliva lysate 800 ug.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 27306-1-AP (MMP9 (Middle) 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 tonsillitis tissue slide using 27306-1-AP (MMP9 (Middle) antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 27306-1-AP (MMP9 (Middle) antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).