

# MMP9 Rabbit pAb

Catalog No.: A0289SP **164 Publications**

## Basic Information

### Observed MW

84 kDa/92 kDa

### Calculated MW

78 kDa

### Category

Primary antibody

### Applications

WB,IF-P,IHC-P,ELISA

### Cross-Reactivity

Human

## Background

Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The enzyme encoded by this gene degrades type IV and V collagens. Studies in rhesus monkeys suggest that the enzyme is involved in IL-8-induced mobilization of hematopoietic progenitor cells from bone marrow, and murine studies suggest a role in tumor-associated tissue remodeling.

## Recommended Dilutions

**WB** 1:3000 - 1:10000**IF-P** 1:300 - 1:1500**IHC-P** 1:5000 - 1:20000

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000) a sequential dilution method is strongly recommended to ensure measurement accuracy.

## Immunogen Information

### Gene ID

4318

### Swiss Prot

P14780

### Immunogen

This information is considered to be commercially sensitive.

### Synonyms

GELB; CLG4B; MMP-9; MANDP2; MMP9

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide.

May contain 0.05% BSA as specified on the Certificate of Analysis.

Contact

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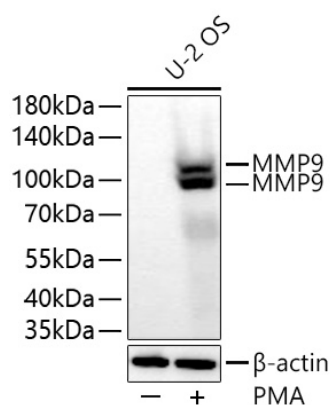
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✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

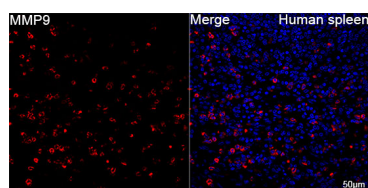
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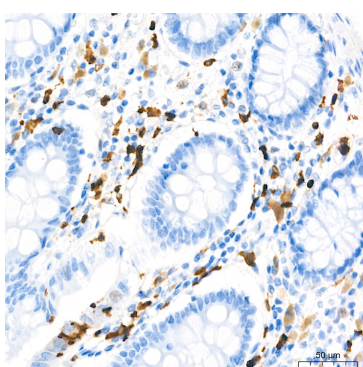
## Validation Data



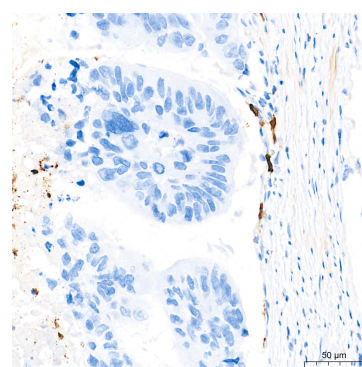
Western blot analysis of lysates from U-2 OS cells using MMP9 Rabbit pAb (A0289SP) at 1:5000 dilution incubated at room temperature for 1.5 hours. U-2 OS cells were treated with PMA (200 nM) at 37°C for 48 hours after serum-starvation overnight.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 30 µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 20 s.



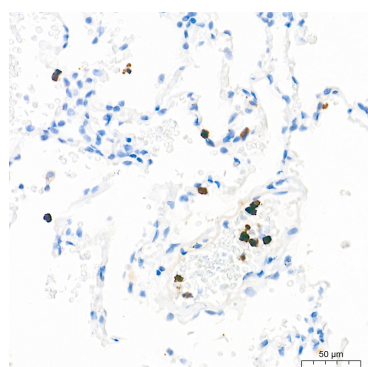
Confocal imaging of paraffin-embedded Human spleen tissue using MMP9 Rabbit pAb (A0289SP, dilution 1:300) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



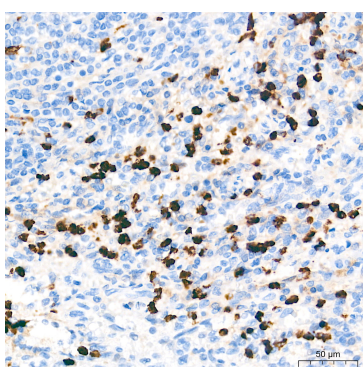
Immunohistochemistry analysis of paraffin-embedded Human colon tissue using MMP9 Rabbit pAb (A0289SP) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using MMP9 Rabbit pAb (A0289SP) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human lung tissue using MMP9 Rabbit pAb (A0289SP) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human spleen tissue using MMP9 Rabbit pAb (A0289SP) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.