

MMP9 Polyclonal Antibody

Catalog number: 10375-2-AP

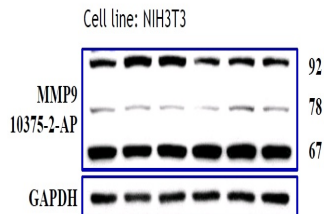
Size: 41 µg/150 µl

Source: Rabbit

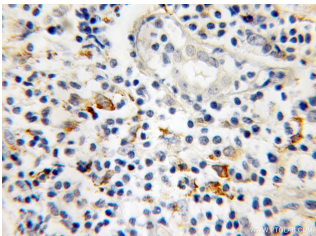
Isotype: IgG

Synonyms:

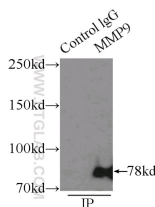
MMP9; 92 kDa gelatinase, 92 kDa type IV collagenase, CLG4B, Gelatinase B, GELB, Matrix metalloproteinase 9, MMP 9, MMP9



WB results of MMP9 antibody (10375-2-AP, 1:500) with NIH3T3 cells, 92 kDa for pro-MMP9 and 78-82 kDa and 67 kDa for Active MMP9. Data from Dr. Hui-Wen Chiu, Taipei Medical University.



Immunohistochemical of paraffin-embedded human breast cancer using 10375-2-AP (MMP9 antibody) at dilution of 1:50 (under 40x lens)



IP Result of anti-MMP9 (IP:10375-2-AP, 3µg; Detection:10375-2-AP 1:300) with Jurkat cells lysate 4000µg.

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. Matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase) (MMP9, synonyms: GELB, CLG4B) degrades type IV and V collagens. 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 and this protein can exist as a dimer of 180 kDa (PMID:7492685).

Applications

Tested applications:	ELISA, WB, IHC, IP, IF
Cited applications:	Dot blotting, IHC, WB
Species specificity:	Human, Mouse, Rat, Zebrafish; other species not tested.
Cited species:	Human, mouse, rat
Calculated MMP9 MW:	707aa, 78 kDa
Observed MMP9 MW:	67 kDa, 92 kDa
Positive WB detected in	Jurkat cells, HepG2 cells, mouse heart tissue, NIH/3T3 cells, Raji cells, rat brain tissue, zebrafish tissue
Positive IP detected in	Jurkat cells
Positive IHC detected in	Human breast cancer tissue, human cervical cancer tissue, human stomach cancer tissue
Positive IF detected in	HeLa cells
Recommended dilution:	WB: 1:200-1:2000 IP: 1:200-1:1000 IHC: 1:20-1:200 IF: 1:20-1:200

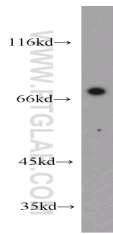
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

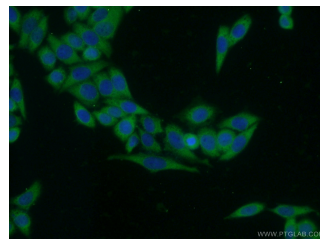
Immunogen:	Ag0552
GenBank accession number:	BC006093
Gene ID (NCBI):	4318
Full name:	Matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



Jurkat cells were subjected to SDS PAGE followed by western blot with 10375-2-AP(MMP9 antibody) at dilution of 1:500



Immunofluorescent analysis of HeLa cells using 10375-2-AP(MMP9 Antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)