

For Research Use Only

MMP9 (N-terminal) Polyclonal antibody



Catalog Number: 10375-2-AP

Featured Product

1040 Publications

Basic Information

Catalog Number: 10375-2-AP	GenBank Accession Number: BC006093	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 400 µg/ml by Nanodrop;	GeneID (NCBI): 4318	Recommended Dilutions: WB 1:500-1:3000 IHC 1:50-1:500 IF 1:200-1:800
Source: Rabbit	UNIPROT ID: P14780	
Isotype: IgG	Full Name: matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)	
Immunogen Catalog Number: AG0552	Calculated MW: 707 aa, 78 kDa	
	Observed MW: 92 kDa, 67 kDa	

Applications

Tested Applications: WB, IF, FC, IHC, ELISA	Positive Controls: WB : Jurkat cells, HEK-293 cells, LNCaP cells, Raji cells, HepG2 cells, MDA-MB-231 cells
Cited Applications: WB, IF, IHC, ColP, ELISA	IHC : human breast cancer tissue, human cervical cancer tissue
Species Specificity: human, mouse, rat	IF : HepG2 cells,
Cited Species: human, rat, mouse, rabbit, fish, hamster, pig, bovine	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Dayun Feng	36179025	Sci Adv	IF
Yu Chen	36240716	Tissue Cell	WB,IHC
Samana Batool	30274346	Int J Mol Sci	WB

Storage

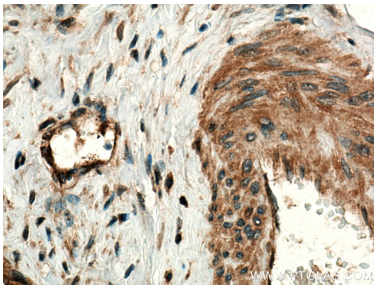
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

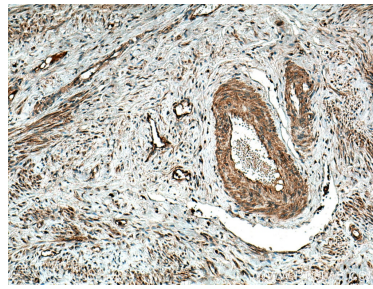
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

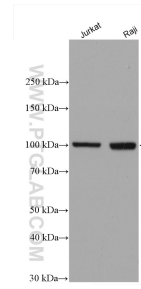
Selected Validation Data



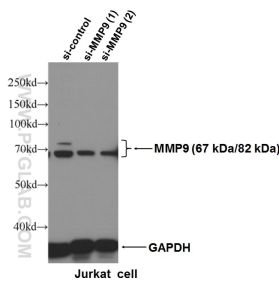
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 10375-2-AP (MMP9 (N-terminal) antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



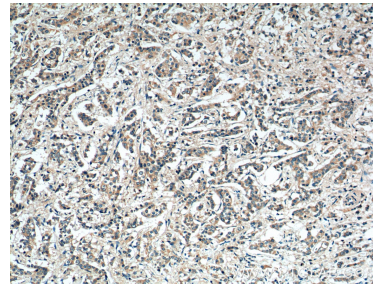
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 10375-2-AP (MMP9 (N-terminal) antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



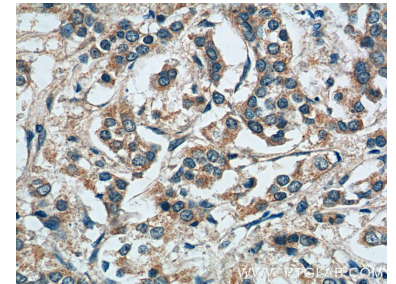
Various lysates were subjected to SDS PAGE followed by western blot with 10375-2-AP (MMP9 (N-terminal) antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



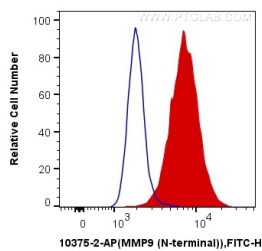
WB result of MMP9 antibody (10375-2-AP, 1:600) with si-control and si-MMP9 transfected Jurkat cells.



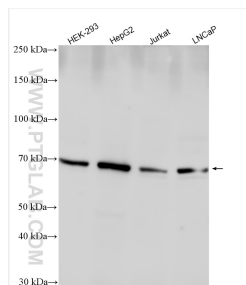
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10375-2-AP (MMP9 (N-terminal) antibody) at dilution of 1:200 (under 10x lens).



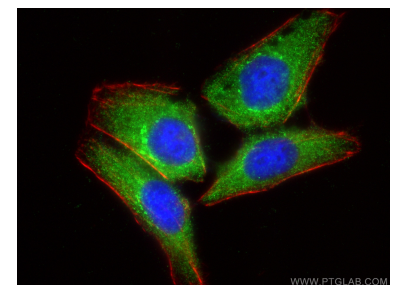
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10375-2-AP (MMP9 (N-terminal) antibody) at dilution of 1:200 (under 40x lens).



1x10⁶ 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 (PF00011-C).



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.



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).