For Research Use Only

MMP-9 (N-terminal) Polyclonal antibody

Catalog Number:10375-2-AP

Featured Product

1264 Publications



Basic Information

Catalog Number: GenBank Accession Number: 10375-2-AP BC006093 GeneID (NCBI): Concentration: 400 ug/ml 4318 **UNIPROT ID:** Source: Rabbit P14780 Full Name: Isotype:

Immunogen Catalog Number:

AG0552

matrix metallopeptidase 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 Recommended Dilutions:

WB: 1:500-1:3000 IHC: 1:50-1:500 IF/ICC: 1:200-1:800

FC (Intra): 0.40 ug per 10^6 cells in a

100 µl suspension

Applications

Tested Applications:

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

Cited Applications WB, IHC, IF, CoIP, ELISA Species Specificity: human

Cited Species:

human, mouse, rat, pig, rabbit, bovine, hamster, fish

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: Jurkat cells, HEK-293 cells, LNCaP cells, HepG2 cells, Raji cells, MDA-MB-231 cells

IHC: human breast cancer tissue, human cervical

cancer tissue

IF/ICC : HepG2 cells. FC (Intra): HeLa cells,

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

Store at -20°C. Stable for one year after shipment.

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

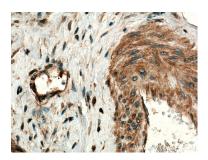
Aliquoting is unnecessary for -20°C storage

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

T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

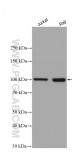
Selected Validation Data



Immunohistochemical analysis of paraffinembedded 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).



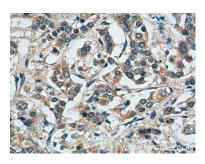
Immunohistochemical analysis of paraffinembedded human cervical cancer tissue slide using 10375-2-AP (MMP9 (N-terminal) antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



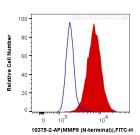
Various lysates were subjected to SDS PAGE followed by western blot with 10375-2-AP (MMP9 (N-terminal) antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



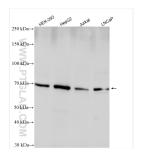
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 10375-2-AP (MMP9 (N-terminal) antibody at dilution of 1:200 (under 10x lens).



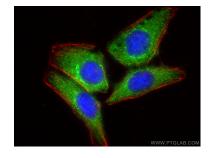
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 10375-2-AP (MMP9 (N-terminal) antibody at dilution of 1:200 (under 40x lens).



1X10^6 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).