## For Research Use Only

MMP-9 (N-terminal) Polyclonal antibody

Catalog Number:10375-2-AP

Featured Product 1219 Publications



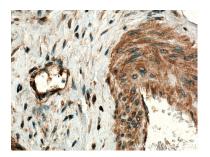
Basic Information	Catalog Number: 10375-2-AP	GenBank Accession Number: BC006093	Purification Method: Antigen affinity purification
	Concentration:	GeneID (NCBI):	Recommended Dilutions:
	400 ug/ml	4318 UNIPROT ID:	WB 1:500-1:3000 IHC 1:50-1:500
	Source: Rabbit	P14780	IF/ICC 1:200-1:800
	Isotype:	Full Name:	
	IgG 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	
Applications	Tested Applications:	Positive	e Controls:
	WB, IHC, IF/ICC, FC (Intra), ELISA Cited Applications:		kat cells, HEK-293 cells, LNCaP cells, HepG2 iji cells, MDA-MB-231 cells
	WB, IHC, IF, CoIP, ELISA		man breast cancer tissue, human cervical
	Species Specificity:	cancer t	
	human Cited Species:	IF/ICC :	HepG2 cells,
	human, mouse, rat, pig, rabbit, bovi	ne, hamster, fish	
	Note-IHC: suggested antigen TE buffer pH 9.0; (*) Alterna retrieval may be performed buffer pH 6.0	tively, antigen	
	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 whe 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 sugge 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).		
Background Information	processes, such as arthritis or meta- cleaved by extracellular proteinase collagenase) (MMP9, synonyms: GE that MMP9 is involved in IL-8-induc studies suggest a role in tumor-asso	es. Matrix metalloproteinase 9 (ge LB, CLG4B) degrades collagens typ ed mobilization hematopoietic pr pciated tissue remodeling. The pro	inactive proproteins which are activated wh latinase B, 92 kDa gelatinase, 92 kDa type I we IV and V. Studies in rhesus monkeys sugg ogenitor cells from bone marrow, and murir MMP9 is 92 kDa, and it can be detected a
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For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926

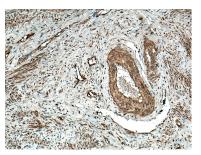
W: ptgcn.com

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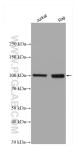
## Selected Validation Data



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).



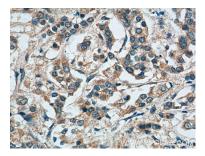
Immunohistochemical analysis of paraffinembedded human cervical cancer tissue slide using 10375-2-AP (MMP9 (N-terminal) antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



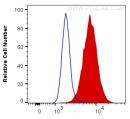
Various lysates were subjected to SDS PAGE followed by western blot with 10375-2-AP (MMP9 (N-terminal) antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



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).

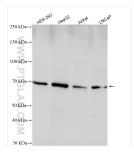


Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 10375-2-AP (MMP9 (N-terminal) antibody at dilution of 1:200 (under 40x lens).



10375-2-AP(MMP9 (N-terminal)),FITC-H

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).