

Rabbit MMP9 Polyclonal Antibody | anti-MMP9 antibody

MMP9 Antibody

CATALOG # AAA225729	HOST Rabbit	APPLICATIONS Immunohistochemistry, Western Blot
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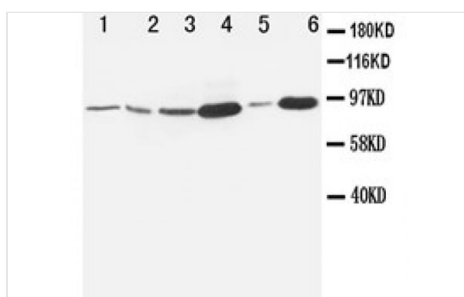
PRODUCT SYNONYMS

MMP9; Polyclonal Antibody; MMP9 Antibody; Affinity Purified Rabbit Polyclonal MMP9 Antibody; Polyclonal MMP9 antibody; Anti-MMP9 antibody; MMP-9 antibody; Matrix Metalloproteinase-9 antibody; MMP 9 antibody; MMP-9; Collagenase IV antibody; MMP 9; MMP9 antibody; anti-MMP9 antibody

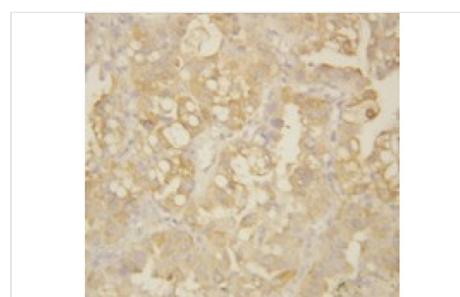
PRODUCT SPECIFICATIONS

Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Specificity	Polyclonal MMP9 antibody specific for Human MMP9 for use in Western Blot and Immunohistochemistry.
Purity/Purification	Affinity Chromatography
Form/Format	Lyophilized Form
Sequence Length	707
Applicable Applications for anti-MMP9 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	MMP9 antibody was raised in Rabbit using a synthetic peptide corresponding to a sequence at the C-terminal of human MMP-9, different from the related Rabbit sequence by two amino acids, as the immunogen
Post-Translational Modifications	Processing of MMP9 by the precursor yields different active forms of 64, 67 and 82 kDa. Sequentially processing by MMP3 yields the 82 kDa MMP9. N- and O-glycosylated, glycosylation occurs at Asn38, Asn120 and Asn127.
Expression	MMP9 exists as monomer or homodimer; disulfide-linked. Exists also as heterodimer with a 25 kDa protein. Macrophages and transformed cell lines produce only the monomeric form. Interacts with ECM1. Activated by 4-aminophenylmercuric acetate and phorbol ester. MMP9 is produced by normal alveolar macrophages and granulocytes.
Preparation and Storage	Store at 4 degree C for short term storage. For long term storage aliquot and store at -20 degree C. Avoid repeated freeze/thaw cycles.

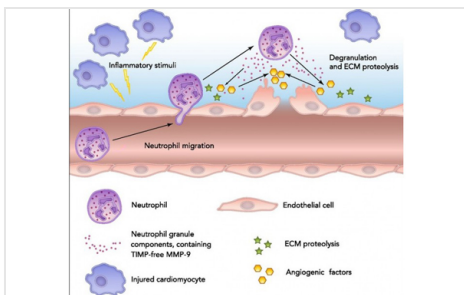
IMAGES


WB (Western Blot)

Lane 1: Rat Embryo Tissue Lysate; Lane 2: MM453 Cell Lysate; Lane 3: Hela Cell Lysate; Lane 4: SMMC Cell Lysate; Lane 5: Jurkat Cell Lysate; Lane 6: HT1080 Cell Lysate


IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded section of Human Lung Cancer Tissue



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-MMP9 antibody	Description: MMP9 is a member of the peptidase M10A family and contains 707 amino acids with a MW of 78458 Da.
	Biological Significance: Proteases of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, angiogenesis, bone development, wound healing, cell migration, learning and memory, as well as in pathological processes, such as arthritis, intracerebral hemorrhage and metastasis. MMP9 may play an essential role in local proteolysis of the extracellular matrix and in leukocyte migration. Could play a role in bone osteoclastic resorption. MMP9 cleaves KiSS1 at a Gly-I-Leu bond. Cleaves type IV and type V collagen into large C-terminal three quarter fragments and shorter N-terminal one quarter fragments. Also degrades fibronectin but not laminin or Pz-peptide.
	Implications In Disease: MMP9 plays a central role in tumor progression, from angiogenesis, to stromal remodeling, and ultimately metastasis. Elevated MMP9 levels can be found in the cases of rheumatoid arthritis and focal brain ischemia. Increased expression was seen in a metastatic mammary cancer cell line. MMPs such as MMP9 can be involved in the development of several human malignancies, as degradation of collagen IV in basement membrane and extracellular matrix facilitates tumor progression, including invasion, metastasis, growth and angiogenesis.
Product Categories/Family for anti-MMP9 antibody	Proteases; Inhibitors; & Enzymes

NCBI AND UNIPROT INFORMATION

NCBI GI #	74272287
NCBI GeneID	4318
NCBI GenBank Nucleotide #	NP_004985.2
UniProt Accession #	P14780
NCBI Official Full Name	matrix metalloproteinase-9 preproprotein
NCBI Official Synonym Full Names	matrix metalloproteinase 9
NCBI Official Symbol	MMP9
NCBI Official Synonym Symbols	GELB; CLG4B; MMP-9; MANDP2
NCBI Protein Information	matrix metalloproteinase-9
UniProt Protein Name	Matrix metalloproteinase-9
UniProt Gene Name	MMP9
UniProt Synonym Gene Names	CLG4B; MMP-9; GELB
UniProt Entry Name	MMP9_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

