# Rabbit MMP9 Polyclonal Antibody | anti-MMP9 antibody

MMP9 Antibody

| CATALOG # | HOST | APPLICATIONS |
|---|---|---|
| **AAA225729** | **Rabbit** | **Immunohistochemistry, Western Blot** |

## 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

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| **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 (Immunohiostchemistry)**
Immunohistochemistry of paraffin-embedded section of Human Lung Cancer Tissue

**Application Data**

## ADDITIONAL INFORMATION

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| **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.<br><br>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-\|-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.<br><br>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

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| **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 metallopeptidase 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.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/mmp9-antibody-immunohistochemistry-western-blot-elisa/225729