

## Mouse anti-Human MMP-9 Monoclonal Antibody | anti-MMP-9 antibody

MMP-9 Monoclonal Antibody

| CATALOG # | HOST  | REACTIVITY | APPLICATIONS                                                                                                         |
|-----------|-------|------------|----------------------------------------------------------------------------------------------------------------------|
| AAA320161 | Mouse | Human      | ELISA, Flow Cytometry, Functional Assay, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

MMP-9; Monoclonal Antibody; MMP-9 Monoclonal Antibody; Matrix metalloproteinase-9; MMP9; CLG4B; 92 kDa gelatinase; 92 kDa type IV collagenase; Gelatinase B; GELB; anti-MMP-9 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                     |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                               |
| Reactivity                                      | Human                                                                                                                               |
| Clonality                                       | Monoclonal                                                                                                                          |
| Specificity                                     | MMP-9 Monoclonal Antibody detects endogenous levels of MMP-9 protein.                                                               |
| Purity/Purification                             | Affinity purification                                                                                                               |
| Form/Format                                     | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                             |
| Applicable Applications for anti-MMP-9 antibody | ELISA, FCM/FACS (Flow Cytometry), ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot) |
| Immunogen                                       | Purified recombinant fragment of human MMP-9 expressed in E coli.                                                                   |
| Modification                                    | Unmodified/Total                                                                                                                    |
| Preparation and Storage                         | Store at -20 degree C/1 year                                                                                                        |

### IMAGES



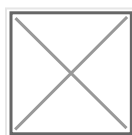
#### FCM/FACS (Flow Cytometry)

Flow cytometric analysis of Hela cells using MMP-9 Monoclonal Antibody (blue) and negative control (red).



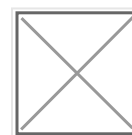
#### IF (Immunofluorescence)

Immunofluorescence analysis of NIH/3T3 cells using MMP-9 Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



#### IHC (Immunohistochemistry)

Immunohistochemistry analysis of paraffin-embedded brain tissues with DAB staining using MMP-9 Monoclonal Antibody.



#### Application Data

Li. X., Ma. N., Zhang. Y. et al. Circular RNA circNRIP1 promotes migration and invasion in cervical cancer by sponging miR-629-3p and regulating the PTP4A1/ERK1/2 pathway. Cell Death Dis 11. 399 (2020).



#### WB (Western Blot)

Western Blot analysis using MMP-9 Monoclonal Antibody against HEK293 (1). MMP7-hlgGfc transfected HEK293 (2) cell lysate and MMP9-hlgGfc transfected HEK293 (3) cell lysate.

### ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-MMP-9 antibody | matrix metalloproteinase 9(MMP9) Homo sapiens Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The enzyme encoded by this gene degrades type IV and V collagens. Studies in rhesus monkeys suggest that the enzyme is involved in IL-8-induced mobilization of hematopoietic progenitor cells from bone marrow, and murine studies suggest a role in tumor-associated tissue remodeling. [provided by RefSeq, Jul 2008] |
| Product Categories/Family for anti-MMP-9 antibody   | Primary Antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                              |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 74272287                                                                                                                                                                                                     |
| NCBI GeneID                      | 4318                                                                                                                                                                                                         |
| NCBI Accession #                 | NP_004985.2                                                                                                                                                                                                  |
| NCBI GenBank Nucleotide #        | NM_004994.2                                                                                                                                                                                                  |
| UniProt Accession #              | P14780; Q3LR70; Q8N725; Q9H4Z1; Q9UCJ9; Q9UCL1; Q9UDK2; B2R7V9                                                                                                                                               |
| Molecular Weight                 | 78,458 Da                                                                                                                                                                                                    |
| NCBI Official Full Name          | matrix metalloproteinase-9 preproprotein                                                                                                                                                                     |
| NCBI Official Synonym Full Names | matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)                                                                                                                       |
| NCBI Official Symbol             | MMP9                                                                                                                                                                                                         |
| NCBI Official Synonym Symbols    | GELB; CLG4B; MMP-9; MANDP2                                                                                                                                                                                   |
| NCBI Protein Information         | matrix metalloproteinase-9; 92 kDa gelatinase; type V collagenase; macrophage gelatinase; 92 kDa type IV collagenase; matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase) |
| 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/monoclonal/mmp-9-antibody-flow-cytometry-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/320161>