

ARG43691 anti-MMP9 antibody

Package: 100 µl
Store at: -20°C

Summary

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|---------------------|---|
| Product Description | Rabbit Polyclonal antibody recognizes MMP9 |
| Tested Reactivity | Rat |
| Predict Reactivity | Ms |
| Tested Application | IHC-P, IP, WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | MMP9 |
| Species | Mouse |
| Immunogen | Recombinant protein fragment corresponding to Mouse MMP9. |
| Conjugation | Un-conjugated |
| Alternate Names | Matrix metalloproteinase-9; 92 kDa gelatinase; MMP-9; Gelatinase B; GELB; CLG4B; MANDP2; EC 3.4.24.35; 92 kDa type IV collagenase |

Application Instructions

| Application table | Application | Dilution |
|-------------------|--|----------------|
| | IHC-P | 1:50 - 1:100 |
| | IP | 1:10 - 1:25 |
| | WB | 1:500 - 1:1000 |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |
| Observed Size | 84-92 kDa | |

Properties

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| Form | Liquid |
| Purification | Affinity purified. |
| Buffer | PBS (pH 7.4), 150 mM NaCl, 0.02% Sodium azide and 50% Glycerol. |
| Preservative | 0.02% Sodium azide |
| Stabilizer | 50% Glycerol |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

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|-----------------------|---|
| Gene Symbol | Mmp9 |
| Gene Full Name | matrix metalloproteinase 9 |
| Background | 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] |
| Function | May play an essential role in local proteolysis of the extracellular matrix and in leukocyte migration. Could play a role in bone osteoclastic resorption. 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. Degrades fibronectin but not laminin or Pz-peptide. [UniProt] |
| Research Area | Brain Injury IHC Study antibody |
| Calculated Mw | 78 kDa |
| PTM | Processing of the precursor yields different active forms of 64, 67 and 82 kDa. Sequentially processing by MMP3 yields the 82 kDa matrix metalloproteinase-9. N- and O-glycosylated. [UniProt] |
| Cellular Localization | Secreted, extracellular space, extracellular matrix. [UniProt] |