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Anti-MMP-9 Antibody
Catalog # ABO12355

Specification

Anti-MMP-9 Antibody - Product Information

Application	**WB, IHC-P, E**
Primary Accession	P41245
Host	**Rabbit**
Reactivity	**Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Matrix metalloproteinase-9(MMP9) detection. Tested with WB, IHC-P, ELISA in Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-MMP-9 Antibody - Additional Information

Gene ID 17395

Other Names
Matrix metalloproteinase-9, MMP-9, 3.4.24.35, 92 kDa gelatinase, 92 kDa type IV collagenase, Gelatinase B, GELB, Mmp9, Clg4b

Calculated MW
80535 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Mouse, Rat, By Heat

ELISA , 0.1-0.5 µg/ml, Mouse, -
Western blot, 0.1-0.5 µg/ml, Mouse, Rat

Subcellular Localization
Secreted, extracellular space, extracellular matrix .

Protein Name
Matrix metalloproteinase-9

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the C-terminus of mouse MMP-9 (641-672aa KALLFSKGRVWRFDLKSQKVDPQSVIRVDKEF), different from the related human sequence by thirteen amino acids, and from the related rat sequence by eight amino acids.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-MMP-9 Antibody - Protein Information

Name Mmp9

Synonyms Clg4b

Function
Matrix metalloproteinase that plays an essential role in local proteolysis of the extracellular matrix and in leukocyte migration (By similarity). Could play a role in bone osteoclastic resorption (PubMed:8132709). Cleaves KiSS1 at a Gly-|-Leu bond (By similarity). Cleaves NINJ1 to generate the Secreted ninjurin-1 form (PubMed:23142597, PubMed:32883094). 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 (By similarity).

Cellular Location
Secreted, extracellular space, extracellular matrix {ECO:0000250|UniProtKB:P14780}

Anti-MMP-9 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-MMP-9 Antibody - Images

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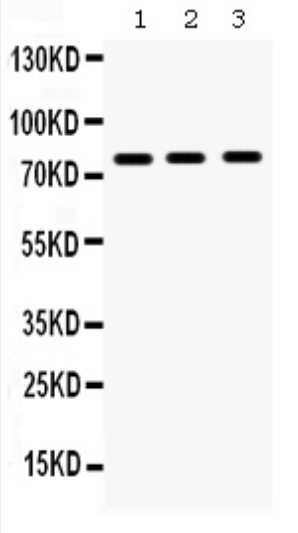
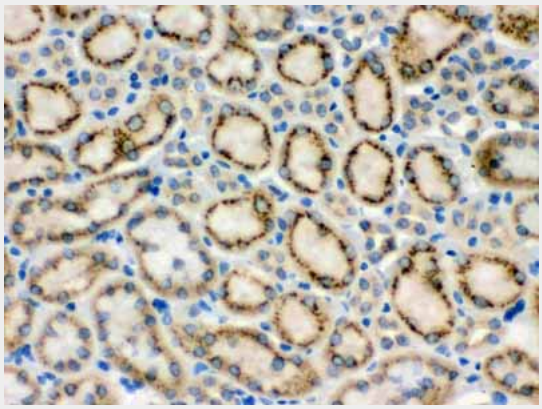
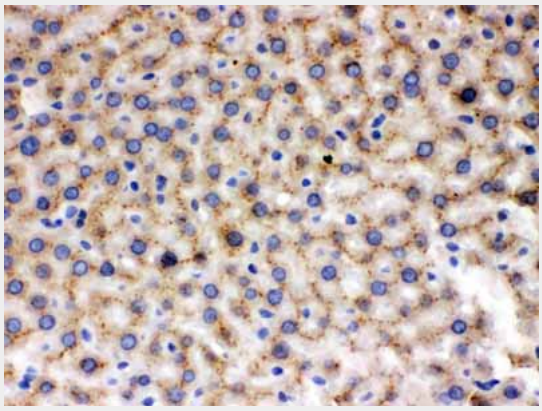


Anti- MMP-9 Picoband antibody, ABO12355, Western blottingAll lanes: Anti MMP-9 (ABO12355) at 0.5ug/mlLane 1: NRK Whole Cell Lysate at 40ugLane 2: ANA-1 Whole Cell Lysate at 40ugLane 3: HEPA Whole Cell Lysate at 40ugPredicted bind size: 78KDObserved bind size: 78KD



Anti- MMP-9 Picoband antibody, ABO12355, IHC(P)IHC(P): Mouse Kidney Tissue



Anti- MMP-9 Picoband antibody, ABO12355, IHC(P)IHC(P): Rat Liver Tissue

Anti-MMP-9 Antibody - Background

Matrix metallopeptidase 9 (MMP-9), also known as 92 kDa type IV collagenase, 92 kDa gelatinase or gelatinase B (GELB), is an enzyme that in humans is encoded by the MMP9 gene. Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes. Most MMPs 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.