

Anti-MMP-9 Antibody

Catalog # ABO12355

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.

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
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 .
Source	Eukaryota
Protein Name	Matrix metalloproteinase-9
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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.

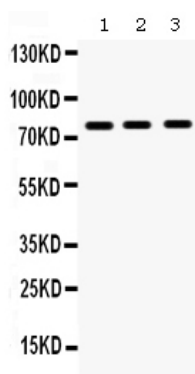
Protein Information

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}

Background

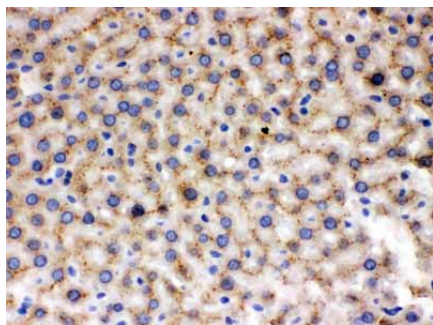
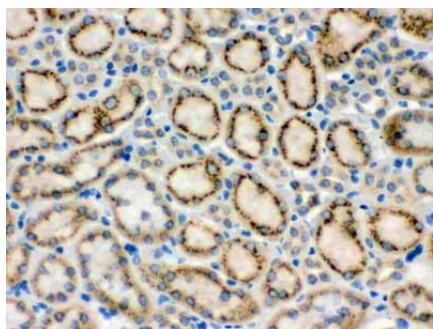
Matrix metalloproteinase 9 (MMP-9), also known as 92 kDa type IV collagenase, 92 kDa gelatinase or gelatinase B (GELB), is an enzyme that in humans is encoded by the MMP9 gene. Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological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

Images



Anti- MMP-9 Picoband antibody, ABO12355, Western blottingAll lanes: Anti MMP-9 (ABO12355) at 0.5ug/mLane 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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.