ARG43618
anti-MMP9 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes MMP9
Tested Reactivity	Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MMP9
Species	Rat
Immunogen	Synthetic peptide corresponding to c-terminal region of Rat 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	1:200 - 1:1000
WB	1:500 - 1:2500

Application Note: IHC-P: Antigen retrieval: Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0)
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: 84-92 kDa

Properties

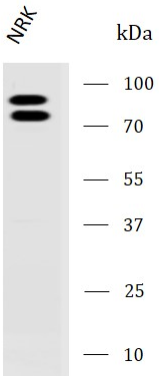
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na2HPO4, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term 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

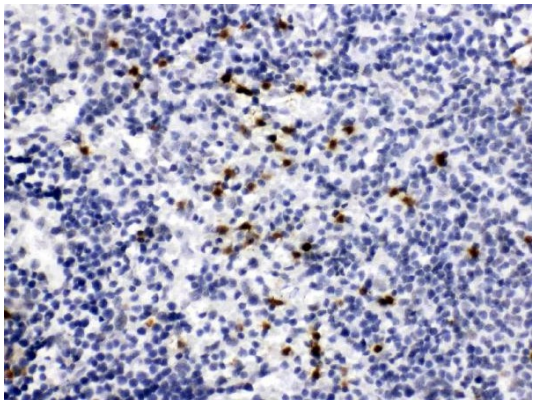
Gene Symbol	Mmp9
Gene Full Name	matrix metallopeptidase 9
Background	Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease 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]

Images



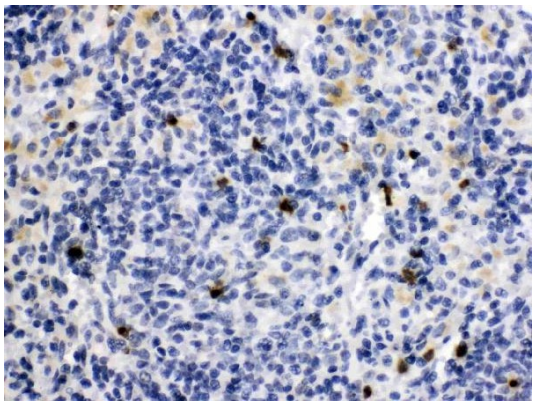
ARG43618 anti-MMP9 antibody WB image

Western blot: NRK stained with ARG43618 anti-MMP9 antibody at 0.5 µg/mL dilution.



ARG43618 anti-MMP9 antibody IHC-P image

Immunohistochemistry: Mouse spleen stained with ARG43618 anti-MMP9 antibody at 1 µg/ml dilution.



ARG43618 anti-MMP9 antibody IHC-P image

Immunohistochemistry: Rat spleen stained with ARG43618 anti-MMP9 antibody at 1 µg/ml dilution.