Mmp9 Recombinant antibody

Catalog Number:82854-5-RR

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Basic Information

Catalog Number:	82854-5-RR
Concentration:	1000 ug/ml
Source:	Rabbit
Isotype:	IgG

GenBank Accession Number:	NM_013599
GeneID (NCBI):	17395
UNIPROT ID:	P41245-1
Full Name:	matrix metallopeptidase 9
Calculated MW:	81kd

Purification Method:	Protein A purification
CloneNo.:	230069F1

Applications

Tested Applications:
FC (Intra), ELISA

Species Specificity:
human, mouse

Background Information

Mmp9 (matrix metallopeptidase 9), also known as Clg4b. It is expected to be located inextracellular matrix. Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, tissue remodeling, and disease processes, such as arthritis or metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. Studies in rhesus monkeys suggest that MMP9 is involved in IL-8-induced mobilization hematopoietic progenitor cells from bone marrow, and murine studies suggest a role in tumor-associated tissue remodeling. The pro-MMP9 is 92 kDa, and it can be detected a processed form of 68 kDa. This protein can exist as a dimer of 180 kDa (PMID:7492685).
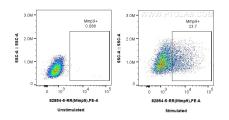
Storage

Storage:
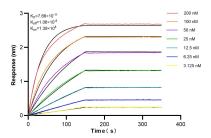Store at -20℃. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

Selected Validation Data

1x10^6 unstimulated or LPS and BFA treated RAW 264.7 cells were intracellularly stained with 0.13 ug Anti-Mouse Mmp9 (82854-5-RR, Clone:230069F1) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:700. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).

Biolayer interferometry (BLI) kinetic assays of 82854-5-RR against Human Mmp9 were performed. The affinity constant is 76.6 pM.