

For Research Use Only

# Mouse Mmp9 Recombinant antibody, PBS Only

Catalog Number: 82854-5-PBS



## Basic Information

<b>Catalog Number:</b> 82854-5-PBS	<b>GenBank Accession Number:</b> NML_013599	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 17395	<b>CloneNo.:</b> 230069F1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P41245-1	
<b>Isotype:</b> IgG	<b>Full Name:</b> matrix metalloproteinase 9	
	<b>Calculated MW:</b> 81kd	

## Applications

**Tested Applications:**  
FC (Intra), Indirect ELISA

**Species Specificity:**  
human, mouse

## Background Information

Mmp9 (matrix metalloproteinase 9), also known as Clg4b. It is expected to be located in extracellular 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 of 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 as a processed form of 68 kDa. This protein can exist as a dimer of 180 kDa (PMID:7492685).

## Storage

**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

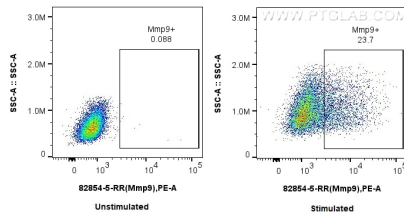
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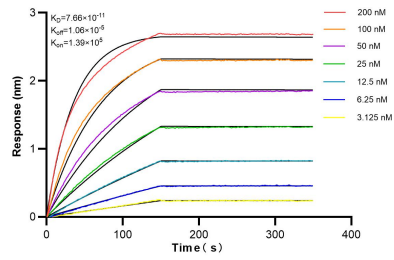
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## Selected Validation Data



1x10<sup>6</sup> unstimulated or LPS and BFA treated RAW 264.7 cells were intracellularly stained with 0.13 ug Anti-Mouse Mmp9 (82854-5-RR, Clone:230069F 1) 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). This data was developed using the same antibody clone with 82854-5-PBS in a different storage buffer formulation.



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