

For Research Use Only

Mmp9 Recombinant monoclonal antibody

Catalog Number: 82854-1-RR

1 Publications



Basic Information

Catalog Number: 82854-1-RR	GenBank Accession Number: NM_013599	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 17395	CloneNo.: 5A1
Isotype: IgG	UNIPROT ID: P41245-1	Recommended Dilutions: WB: 1:5000-1:50000
Immunogen Catalog Number: EG0452	Full Name: matrix metalloproteinase 9	
	Calculated MW: 81kd	
	Observed MW: 92-100 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : mouse spleen tissue, mouse lung tissue
Cited Applications: WB	
Species Specificity: mouse	
Cited Species: human	

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 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).

Notable Publications

Author	Pubmed ID	Journal	Application
YouLin Tuo	39524172	Cureus	WB

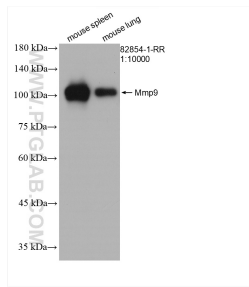
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

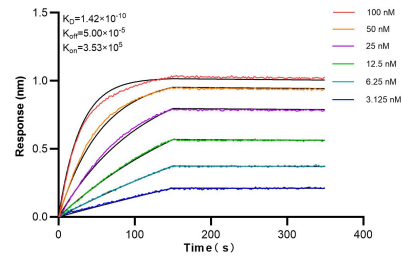
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82854-1-RR (Mmp9 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 82854-1-RR against Mouse Mmp9 were performed. The affinity constant is 0.142 nM.