

For Research Use Only

MMP9 (Middle) Polyclonal antibody

Catalog Number: 27306-1-AP

15 Publications



Basic Information

Catalog Number: 27306-1-AP	GenBank Accession Number: BC006093	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 350 µg/ml by Nanodrop and 267 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4318	Recommended Dilutions: WB 1:500-1:1000 IP 0.5-4.0 ug for IP and 1:200-1:1000 for WB
Source: Rabbit	Full Name: matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)	IHC 1:50-1:500
Isotype: IgG	Calculated MW: 707 aa, 78 kDa	
Immunogen Catalog Number: AG26132	Observed MW: 92 kDa	

Applications

Tested Applications: IHC, IP, WB, ELISA	Positive Controls:
Cited Applications: IHC, WB	WB: human saliva tissue,
Species Specificity: human	IP: human saliva tissue,
Cited Species: human, rat	IHC: human tonsillitis tissue, human spleen tissue

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

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. Matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase) (MMP9, synonyms: GELB, CLG4B) degrades collagens type IV and V. 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 or 82 kDa. This protein can exist as a dimer of 180 kDa (PMID:7492685).

Notable Publications

Author	Pubmed ID	Journal	Application
XIAOYUE FENG	34528694	Oncol Rep	WB
WANG Xiao-He	34688464	Chin J Nat Med	WB
Cong Xu	34868365	Oncol Lett	WB

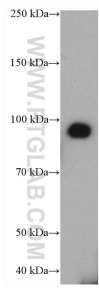
Storage

Storage:
Store at -20°C. 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

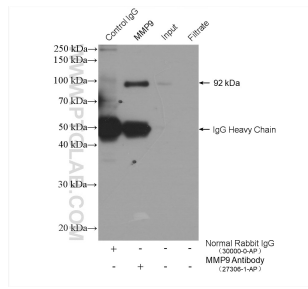
For technical support and original validation data for this product please contact:
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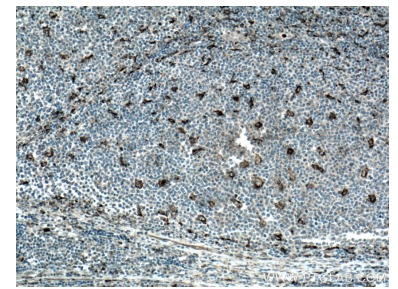
Selected Validation Data



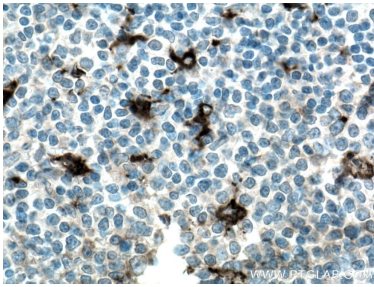
human saliva were subjected to SDS PAGE followed by western blot with 27306-1-AP (MMP9 (Middle) antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



IP result of anti-MMP9 (Middle)(IP:27306-1-AP, 4ug; Detection:27306-1-AP 1:300) with human saliva lysate 800 ug.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 27306-1-AP (MMP9 (Middle) antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 27306-1-AP (MMP9 (Middle) antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).