

For Research Use Only

# MMP12 Polyclonal antibody

Catalog Number: 22989-1-AP

33 Publications



## Basic Information

Catalog Number:

22989-1-AP

Concentration:

350 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG19068

GenBank Accession Number:

BC112301

GeneID (NCBI):

4321

UNIPROT ID:

P39900

Full Name:

matrix metalloproteinase 12  
(macrophage elastase)

Calculated MW:

470 aa, 54 kDa

Observed MW:

54 kDa, 45 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:3000

## Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rabbit, hamster

Positive Controls:

WB: mouse brain tissue, rat brain tissue

## Background Information

MMP12(Matrix metalloproteinase-12) is a 54 kDa proenzyme that is processed into a 45 kDa and then a 22 kDa active form(15723202). MMP9 and MMP12 promote intimal thickening by independent cleavage of N-cadherin, which elevates vascular smooth muscle cell proliferation via beta-catenin signalling. Its overexpression in myeloid lineage cells plays a key role in modulating myelopoiesis, immune suppression, and lung tumorigenesis(PMID: 21378275).

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhen-Huang Chen	32918999	Mol Cell Neurosci	IHC
Ruijuan Guan	31704583	Redox Biol	WB
Jian Chen	34722509	Front Cell Dev Biol	IF

## 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

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

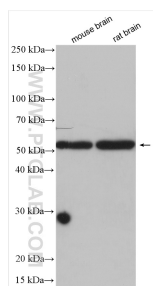
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 22989-1-AP (MMP12 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.