

For Research Use Only

# MMP12 Monoclonal antibody

Catalog Number: 66930-1-Ig

Featured Product

4 Publications



## Basic Information

Catalog Number:

66930-1-Ig

Size:

150ul, Concentration: 2285 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

Source:

Mouse

Isotype:

IgG1

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:

Protein G purification

CloneNo.:

1C6B5

Recommended Dilutions:

WB 1:1000-1:3000

## Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB, IHC

Species Specificity:

Human

Cited Species:

human, mouse

Positive Controls:

WB : HeLa cells, A549 cells, HEK-293 cells, NCI-H1299 cells

## 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
Wenwen Chen	34616145	Drug Des Devel Ther	WB
Saphala Dhital	34516951	Eur J Pharmacol	IHC
Shichao Han	39819270	Curr Eye Res	WB,IHC

## 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

\*\*\* 20ul sizes contain 0.1% BSA

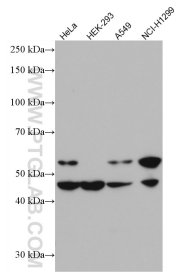
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66930-1-Ig (MMP12 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.