

For Research Use Only

MMP3 Monoclonal antibody

Catalog Number: 66338-1-Ig

Featured Product

35 Publications



Basic Information

Catalog Number: 66338-1-Ig	GenBank Accession Number: BC074869	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4314	CloneNo.: 1F5A9
Source: Mouse	UNIPROT ID: P08254	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000
Isotype: IgG1	Full Name: matrix metalloproteinase 3 (stromelysin 1, progelatinase)	
Immunogen Catalog Number: AG12359	Calculated MW: 477 aa, 54 kDa	
	Observed MW: 45-60 kDa	

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

WB,IHC,IF

Species Specificity:

human, rat, mouse, pig

Cited Species:

human, rat, mouse, pig

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

Positive Controls:

WB : PC-12 cells, human heart tissue, HeLa cells, fetal human brain tissue, COLO 320 cells, Caco-2 cells, pig heart tissue, pig brain tissue, rat brain tissue, mouse brain tissue

IHC : human breast cancer tissue, human colon cancer tissue, mouse colon tissue, rat colon tissue

Background Information

Matrix metalloproteinases (MMPs) play a critically important role in extracellular matrix remodeling and have been implicated in a number of key normal and pathologic processes. These proteases have come to represent important therapeutic and diagnostic targets for the treatment and detection of human cancers. MMP-3 activate procollagenase via two pathways: slow direct activation and rapid activation in conjunction with tissue or plasma proteinases. The pro-MMP3 (60 kDa) and the active MMP3 (47 kDa) can be detected through western blot.

Notable Publications

Author	Pubmed ID	Journal	Application
Wenbin Pei	34650433	Front Pharmacol	WB
Weichao Sun	36102306	Int J Mol Med	WB,IHC,IF
Xin Liu	32914937	J Cell Mol Med	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

*** 20ul sizes contain 0.1% BSA

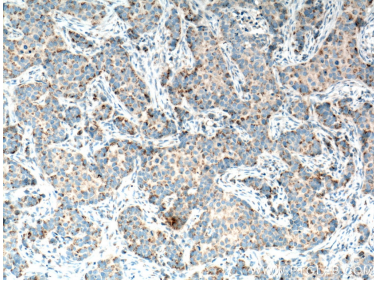
For technical support and original validation data for this product please contact:

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

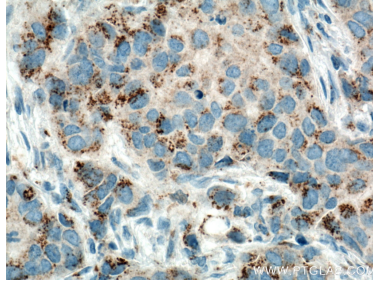
E: proteintech@ptglab.com
W: ptglab.com

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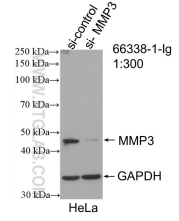
Selected Validation Data



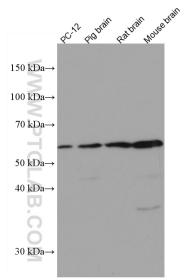
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66338-1-Ig (MMP3 antibody) at dilution of 1:4000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



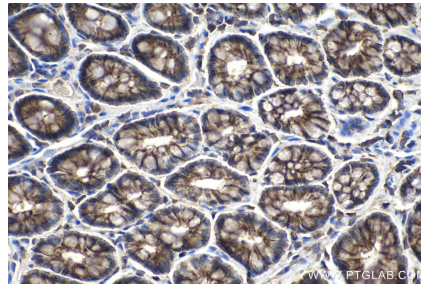
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66338-1-Ig (MMP3 antibody) at dilution of 1:4000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of MMP3 antibody (66338-1-Ig; 1:300; incubated at room temperature for 1.5 hours) with sh-Control and sh-MMP3 transfected HeLa cells.



Various lysates were subjected to SDS PAGE followed by western blot with 66338-1-Ig (MMP3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat colon tissue slide using 66338-1-Ig (MMP3 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).