

For Research Use Only

MMP3 Monoclonal antibody

Catalog Number: 66338-1-Ig

Featured Product

49 Publications



Basic Information

Catalog Number:

66338-1-Ig

Size:

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

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG12359

GenBank Accession Number:

BC074869

GeneID (NCBI):

4314

UNIPROT ID:

P08254

Full Name:

matrix metalloproteinase 3 (stromelysin 1, progelatinase)

Calculated MW:

477 aa, 54 kDa

Observed MW:

45-60 kDa

Purification Method:

Protein A purification

CloneNo.:

1F5A9

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:500-1:2000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat, pig

Cited Species:

human, mouse, rat, pig, monkey

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

IF/ICC: A549 cells,

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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

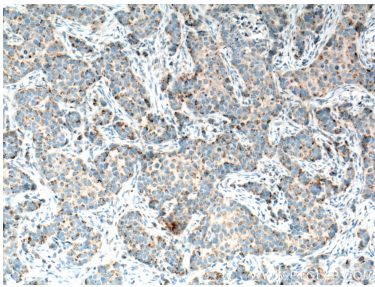
For technical support and original validation data for this product please contact:

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

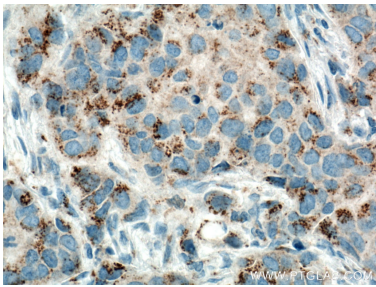
E: proteintech@ptglab.com
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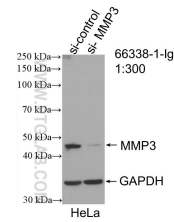
Selected Validation Data



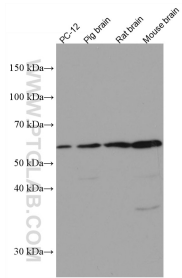
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66338-1-Ig (MMP3 antibody) at dilution of 1:4000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



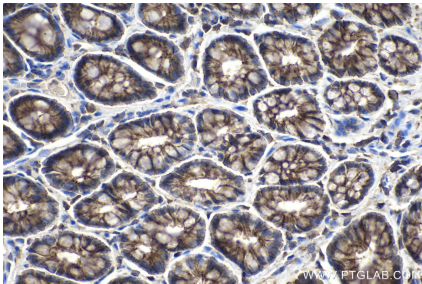
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66338-1-Ig (MMP3 antibody) at dilution of 1:4000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



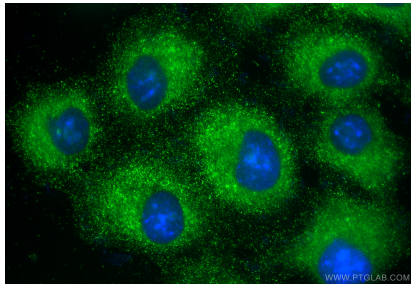
WB result of MMP3 antibody (66338-1-Ig; 1:300; incubated at room temperature for 1.5 hours) with sh-Control and sh-MMP3 transfected HeLa cells.



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).



Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using MMP3 antibody (66338-1-Ig, Clone: 1F5A9) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).