

MMP3 Monoclonal antibody

Catalog Number: 66338-1-Ig

Featured Product

53 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 G 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

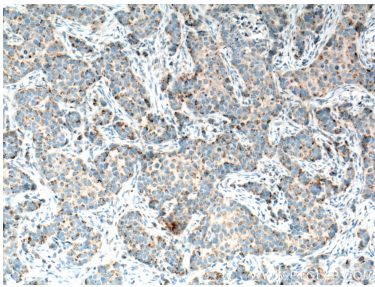
For technical support and original validation data for this product please contact:

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

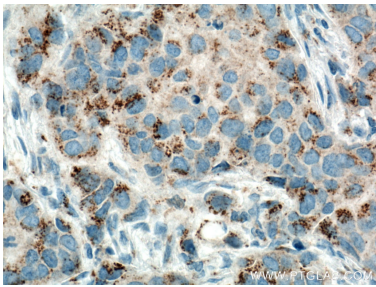
E: proteintech@ptglab.com
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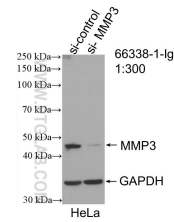
Selected Validation Data



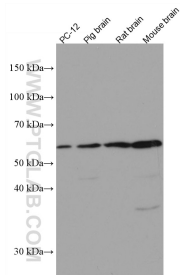
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66338-1-Ig (MMP3 antibody) at dilution of 1:4000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



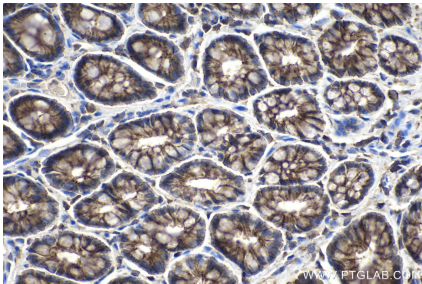
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66338-1-Ig (MMP3 antibody) at dilution of 1:4000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



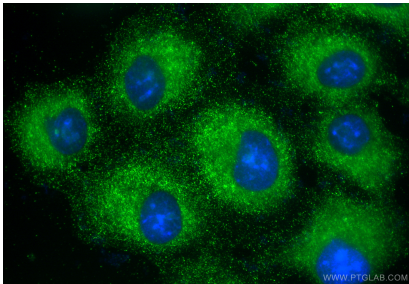
WB result of MMP3 antibody (66338-1-Ig; 1:300; incubated at room temperature for 1.5 hours) with sh-Control and sh-MMP3 transfected HeLa cells.



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).