

MMP3

Monoclonal ANTIBODY

Catalog Number: 66338-1-Ig

Featured Product

Basic Information

Catalog Number:
66338-1-Ig

Size:
150 µg/150 µl

Source:
Mouse

Isotype:
IgG1

Purification Method:
Protein G purification

Immunogen Catalog Number:
AG12359

GenBank Accession Number:
BC074869

GeneID (NCBI):
4314

Full Name:
matrix metalloproteinase 3 (stromelysin 1,
progelatinase)

Calculated MW:
477aa, 54 kDa

Observed MW:
45-60 kDa

Recommended Dilutions:

WB 1:5000-1:50000
IHC 1:50-1:500

Applications

Tested Applications:

IHC, WB, ELISA

Species Specificity:

human, rat, mouse, pig

Note: 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 stomach cancer 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
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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

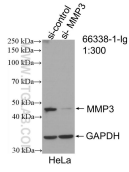
For technical support and original validation data for this product please contact:

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

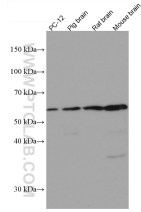
E: proteintech@ptglab.com
W: ptglab.com

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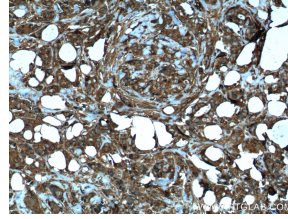
Selected Validation Data



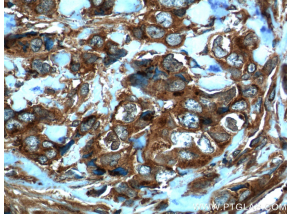
WB result of MMP3 antibody (66338-1-Ig; 1:300; incubated at room temperature for 1.5 hours) with sh-Control and sh-MMP3 transfected HeLa cells



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 human breast cancer tissue slide using 66338-1-Ig (MMP3 Antibody) at dilution of 1:500 (under 10x lens). heat mediated antigen retrieval with Tris-EDTA buffer (pH9).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66338-1-Ig (MMP3 Antibody) at dilution of 1:500 (under 40x lens). heat mediated antigen retrieval with Tris-EDTA buffer (pH9).