MMP3 Monoclonal antibody
Catalog Number: 66338-1-Ig

Basic Information
Catalog Number: 66338-1-Ig
Size: 150μL, Concentration: 1000 μg/ml by Bradford method using BSA as the standard;
Source: Mouse
Isotype: IgG1
Immunogen Catalog Number: AG12359
GenBank Accession Number: BC074869
GeneID (NCBI): 4314
Full Name: matrix metalloproteinase 3 (stromelysin 1, progelatinase)
Calculated MW: 477 aa, 54 kDa
Observed MW: 45-60 kDa
Purification Method: Protein A purification
Clone No.: 1F5A9
Recommended Dilutions: WB 1:5000-1:50000, IHC 1:2000-1:8000

Applications
Tested Applications: IHC, WB, ELISA
Cited Applications: IF, WB
Species Specificity: human, rat, mouse, pig
Cited Species: human, rat

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

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

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<th>Author</th>
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<tr>
<td>Xin Liu</td>
<td>32914937</td>
<td>J Cell Mol Med</td>
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<td>Huan Wang</td>
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<td>Angelina D Schoenenberger</td>
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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

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
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).

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.

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.