

MMP1 Polyclonal antibody

Catalog Number: 26585-1-AP

4 Publications

Basic Information

Catalog Number:

26585-1-AP

Size:

450 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG25073

GenBank Accession Number:

BC013875

GeneID (NCBI):

4312

UNIPROT ID:

P03956

Full Name:

matrix metalloproteinase 1
(interstitial collagenase)

Calculated MW:

54 kDa

Observed MW:

62 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:200-1:1000

IP 0.5-4.0 µg for 1.0-3.0 mg of total
protein lysate

IHC 1:100-1:400

Applications

Tested Applications:

IHC, IP, WB, ELISA

Cited Applications:

WB, IHC, IP

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat

**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: A375 cells, NIH/3T3 cells

IP: Raji cells,

IHC: human cervical cancer tissue, human liver cancer
tissue

Background Information

MMP1, also named as CLG, belongs to the peptidase M10A family. MMP is the main enzyme that cleaves fibrillar collagen, namely types I, II, III, VII, and XI. It is involved in cell migration and invasion, and is frequently up-regulated in cancer cells. It can be cleavage to two major forms (22 kDa and 27 kDa) by undergoing autolytic, and the minor form (25 kDa) is the glycosylated form of the 22 kDa form. The 27 kDa form has no activity while the 22/25 kDa form can act as activator for collagenase. The sizes of pro-MMP-1 and active MMP-1 from human synovial fibroblasts have been reported as 52 to 56 kDa, depending on glycosylation, and 41 to 45 kDa, respectively. In addition, a band of 62-kDa observed in the current study is pro-MMP-1 (PMID:9418730).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-------------|-----------|-------------------------|-------------|
| Haiquan Zhu | 34093648 | Front Genet | WB |
| Li Zeng | 28447732 | Mol Med Rep | |
| Yihui Zhu | 35254603 | Breast Cancer Res Treat | WB, IHC, IP |

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

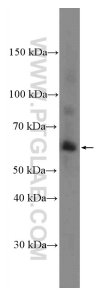
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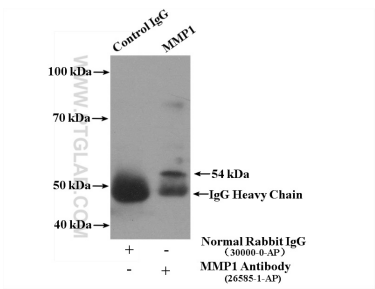
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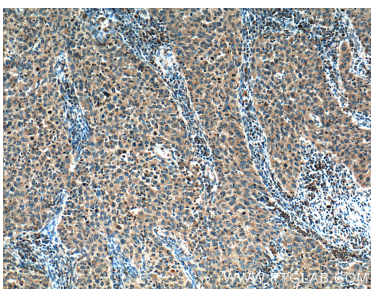
Selected Validation Data



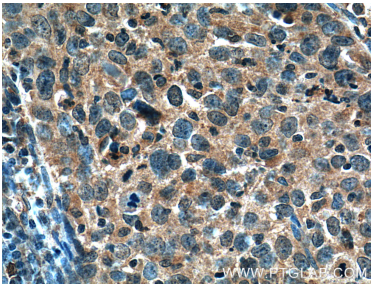
A375 cells were subjected to SDS PAGE followed by western blot with 26585-1-AP (MMP1 Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



IP result of anti-MMP1 (IP:26585-1-AP, 4ug; Detection:26585-1-AP 1:300) with Raji cells lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 26585-1-AP (MMP1 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 26585-1-AP (MMP1 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).