

For Research Use Only

MMP1 Recombinant monoclonal antibody

Catalog Number: 83114-6-RR



Basic Information

Catalog Number:

83114-6-RR

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG0527

GenBank Accession Number:

BC013875

GeneID (NCBI):

4312

UNIPROT ID:

P03956

Full Name:

matrix metalloproteinase 1
(interstitial collagenase)

Calculated MW:

54 kDa

Observed MW:

55-62 kDa

Purification Method:

Protein A purification

CloneNo.:

260620C5

Recommended Dilutions:

WB: 1:2000-1:10000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : MDA-MB-231 cells, HUVEC cells

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 X. 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).

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

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

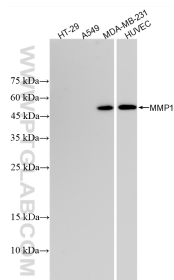
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83114-6-RR (MMP1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.