

# MMP1 Recombinant antibody

Catalog Number: 83114-1-RR

## Basic Information

**Catalog Number:**

83114-1-RR

**Size:**

1000 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

BC013875

**GeneID (NCBI):**

4312

**UNIPROT ID:**

P03956

**Full Name:**matrix metalloproteinase 1  
(interstitial collagenase)**Calculated MW:**

54 kDa

**Observed MW:**

45-48 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

230343C6

**Recommended Dilutions:**

WB 1:2000-1:10000

## Applications

**Tested Applications:**

WB, ELISA

**Species Specificity:**

Human

**Positive Controls:**

WB : MDA-MB-231 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

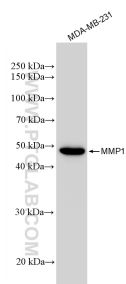
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## Selected Validation Data



MDA-MB-231 cells were subjected to SDS PAGE followed by western blot with 83114-1-RR (MMP1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.