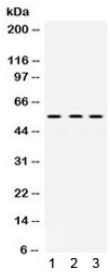
MMP-1 Antibody (R31876)

Catalog No.	Formulation	Size
R31876	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P03956
Applications	Western Blot : 0.1-0.5ug/ml
Limitations	This MMP-1 antibody is available for research use only.



Western blot testing of human 1) SMMC, 2) 22RV1 and 3) MCF7 cell lysate with MMP-1 antibody. Expected/observed molecular weight ~54 kDa.

Description

Matrix metalloproteinase-1 (MMP-1), also known as interstitial collagenase and fibroblast collagenase, is an enzyme that in humans is encoded by the MMP1 gene. MMP-1 was the first vertebrate collagenase both purified to homogeneity as a protein, and cloned as a cDNA. Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. This gene encodes a secreted enzyme which breaks down the interstitial collagens, types I, II, and III. It is part of a cluster of MMP genes which localize to chromosome 11q22.3. Alternative splicing results in multiple transcript variants.

Application Notes

Optimal dilution of the MMP-1 antibody should be determined by the researcher.

Immunogen

Amino acids DAHFDEDERWTNNFREYNLHRVAAHELGHSLGLSHSTD of human MMP1 were used as the immunogen for the MMP-1 antibody.

Storage

After reconstitution, the MMP-1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.