SunLong Biotech Co.,LTD
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Mouse Anti-MMP1 antibody

SLM-51648M

Product Name	MMP1
Chinese Name	基质金属蛋白酶-1 单克隆抗体
Alias	27 kDa interstitial collagenase; CLGN; CLG; collagenase, fibroblast; Fibroblast collagenase; Interstitial collagenase; MMP 1; MMP-1; MMP; Fibroblast collagenase; Interstitial collagenase; Matrix metallopeptidase 1 (interstitial collagenase); Matrix metalloprotease 1; Matrix metalloproteinase-1; MMP1_HUMAN; OTTHUMP00000045866; Matrix Metalloproteinase 1.
Research Area	Tumour Cardiovascular Cell biology Signal transduction Cytoskeleton
Immunogen Species	Mouse
Clonality	Monoclonal
Clone NO.	T6R1
React Species	Human,
Applications	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	27/41/54kDa
Cellular localization	Secretory protein
Form	Liquid
Concentration	1mg/ml
immunogen	Recombinant human MMP-1.
Lsotype	IgG2a
Purification	affinity purified by Protein G
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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Product Detail

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. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Mar 2009]

Function:
Cleaves collagens of types I, II, and III at one site in the helical domain. Also cleaves collagens of types VII and X. In case of HIV infection, interacts and cleaves the secreted viral Tat protein, leading to a decrease in neuronal Tat's mediated neurotoxicity.

Subunit:
Interacts with HIV-1 Tat.

Subcellular Location:
Secreted, extracellular space, extracellular matrix (Probable).

Post-translational modifications:
Undergoes autolytic cleavage to two major forms (22 kDa and 27 kDa). A 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.

Similarity:
Belongs to the peptidase M10A family.
Contains 4 hemopexin-like domains.

SWISS:
P03956

Gene ID:
4312

Database links:

Entrez Gene: 4312 Human

SwissProt: P03956 Human

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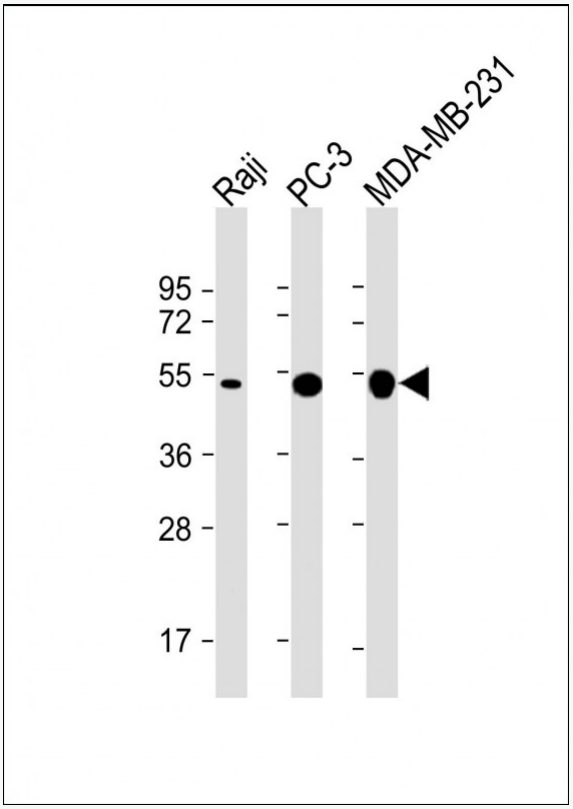
Product Picture



Sample:

Lane 1: Raji cell lysates

Lane 2: PC-3 cell lysates

Lane 3: MDA-MB-231 cell lysates

Primary: Anti-MMP1 (SLM-51648M) at 1/2000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 27/41/54 kD

Observed band size: 54 kD