



Rabbit Anti-MMP1 antibody

SL20170R

Product Name:	MMP1
Chinese Name:	基质金属蛋白酶-1抗体
Alias:	22kDa interstitial collagenase; CLGN; CLG; collagenase, fibroblast; Fibroblast collagenase; Interstitial collagenase; MMP 1; MMP-1; MMP; Fibroblast collagenase; Interstitial collagenase; Matrix metalloproteinase 1 (interstitial collagenase); Matrix metalloproteinase 1; Matrix metalloproteinase-1; MMP1_HUMAN; OTTHUMP00000045866; Matrix Metalloproteinase 1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Cow,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	22/41/54kDa
Cellular localization:	Extracellular matrixSecretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human MMP1 (22kDa interstitial collagenase):100-269/469
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	Preservative: 15mM Sodium Azide, Constituents: 1% BSA, 0.01M PBS, pH 7.4
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
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: 281308](#)Cow

[Entrez Gene: 4312](#)Human

[Omin: 120353](#)Human

[SwissProt: P28053](#)Cow

[SwissProt: P03956](#)Human

[Unigene: 83169](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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