

Rabbit Anti-MMP1 antibody

SL0463R

Product Name:	MMP1
Chinese Name:	基质金属蛋白酶-1抗体
Alias:	27 kDa interstitial collagenase; CLGN; CLG; collagenase, fibroblast; Fibroblast collagenase; Interstitial collagenase; Matrix metallopeptidase 1 (interstitial collagenase); Matrix metalloproteinase-1; Matrix metalloprotease 1; Matrix Metalloproteinase 1; MMP-1; MMP1 HUMAN; OTTHUMP00000045866; MMP 1.
	Specific References(5) SL0463R has been referenced in 5 publications.
	[IF=2.47]Luo, Yang, et al. "The inhibitory effect of salmon calcitonin on intervertebral
	disc degeneration in an ovariectomized rat model." European Spine Journal (2014): 1-
	11.IHC-P;Rat.
	PubMed:25304649
	[IF=1.26]Mohamed, Nesma Sultan, et al. "Impact of Three Different Mouthwashes on
	the Incidence of Gingival Overgrowth Induced by Cyclosporine-A; A Randomized
文献引用	Controlled Experimental Animal Study." Oral Surgery, Oral Medicine, Oral Pathology
Pub	and Oral Radiology (2015).other;Rat.
	PubMed:26153120
	[IF=1.38]Elkabir, Mohammed Ali, et al. "Efficacy of azithromycin and metronidazole
	combined therapy on rats' gingival overgrowth induced by cyclosporine-A: An
	experimental animal study." Journal of Oral Biology and Craniofacial Research
	(2016). IHC-P;Rat .
	PubMed:27761387
	[IF=3.40]Ding, Feng, et al. "Osteopontin stimulates matrix metalloproteinase expression
	through the nuclear factor- κ B signaling pathway in rat temporomandibular joint and

	condylar chondrocytes." Am J Transl Res 9.2 (2017): 316-329.WB;Rat.
	PubMed:28337262
	[IF=2.66]Song, Huiping, et al. "Effects of alendronateon lumbar intervertebral disc
	degeneration with bone loss in ovariectomized rats." The Spine Journal (2017).IHC-
	P:Rat.
	PubMed:28288923
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human, Mouse, Rat,
-	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections
	need antigen repair)
Applications:	not vet tested in other applications
	optimal dilutions/concentrations should be determined by the end user
Molecular weight:	27/41/54kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	lmg/ml
	KLH conjugated synthetic peptide derived from mouse MMP1 (27 kDa interstitial
Immunogen:	collagenase):401-464/464
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized
Storage.	antibody is stable at room temperature for at least one month and for greater than a year
Stor age.	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
	The matrix metalloproteinases (MMPs) are a family of at least eighteen secreted and
	membrane bound zincendopeptidases. Collectively, these enzymes can degrade all the
	components of the extracellular matrix, including fibrillar and non fibrillar collagens,
	fibronectin, laminin and basement membrane glycoproteins. In general, a signal peptide,
	a propeptide, and a catalytic domain containing the highly conserved zinc binding site
	characterizes the structure of the MMPs. In addition, fibronectin like repeats, a hinge
	region, and a C terminal hemopexin like domain allow categorization of MMPs into the
Product Detail:	collagenase, gelatinase, stomelysin and membrane type MMP subtamilies. All MMPs
	are synthesized as proenzymes, and most of them are secreted from the cells as
	proenzymes. Thus, the activation of these proenzymes is a critical step that leads to
	extracellular matrix breakdown. MIMPs are considered to play an important role in
	wound healing, apoptosis, bone elongation, embryo development, uterine involution,
	Alzhoimor's malignant gliomas lunus arthritis periodontis glumorulononbritis
	Aizinements, manghant gnomas, rupus, arunnus, periodonius, giumeruionepintus,
	amerosolorosis, ussue urceration, and in cancer cen mivasion and metastasis.

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).

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

SWISS: P03956

Gene ID: 17386

Database links:

Entrez Gene: 281308Cow

Entrez Gene: 4312Human

Entrez Gene: 17386Mouse

Entrez Gene: 397320Pig

Entrez Gene: 100009110Rabbit

Omim: 120353Human

SwissProt: P28053Cow

SwissProt: P03956Human

SwissProt: P33435Mouse

SwissProt: P21692Pig

SwissProt: P13943Rabbit

Unigene: 83169Human

Important Note:

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



