



Rabbit Anti-MMP-3 antibody

SL0413R

Product Name:	MMP-3
Chinese Name:	基质金属蛋白酶3抗体
Alias:	matrix metalloproteinase-3; Transin-1; SL-1; SL 1; SL1; Stromelysin-1 precursor; MMP3 Stromelysin-1; EMS-2; Matrix metalloproteinase 3; Matrix metalloproteinase-3; Matrix metalloproteinase 3 preproprotein; MGC126102; MGC126103; MGC126104; MMP 3; MMP3; Progelatinase; Proteoglycanase;STMY; STMY1; STR1; Stromelisin 1; Stromelysin 1 progelatinase; Transin 1; MMP3 HUMAN.
文献引用 PubMed :	<p>Specific References(8) SL0413R has been referenced in 8 publications.</p> <p>[IF=3.82]Luo, Yang, et al. "Alendronate Retards the Progression of Lumbar Intervertebral Disc Degeneration in Ovariectomized Rats." Bone (2013).IHC-P;Rat. PubMed:23500174</p> <p>[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</p> <p>[IF=0.98]Koch, Holger, et al. "Tissue engineering of ureteral grafts: Preparation of biocompatible crosslinked ureteral scaffolds of porcine origin." Name: Frontiers in Bioengineering and Biotechnology 3 (2015): 89.IHC-P;Pig. PubMed:26157796</p> <p>[IF=1.43]Wang, Xiao-yan, et al. "AMD3100 attenuates MMP-3 and MMP-9 expressions and prevents cartilage degradation in a monosodium iodoacetate-induced rat model of temporomandibular osteoarthritis." Journal of Oral and Maxillofacial Surgery (2016).IHC-P;Rat.</p>

	<p style="text-align: center;">PubMed:26851314</p> <p>[IF=2.43] Wei, Fuxin, et al. "Pingyangmycin-induced in vivo lumbar disc degeneration model of rhesus monkeys." Spine 40.4 (2015): E199-E210. IHC-P;</p> <p style="text-align: center;">PubMed:25679953</p> <p>[IF=2.14] Lu, Minling, et al. "The effects of mycotoxins and selenium deficiency on tissue-engineered cartilage." Cells Tissues Organs 196.3 (2012): 241-250. IHC-P;Rabbit.</p> <p style="text-align: center;">PubMed:22538829</p> <p>[IF=1.80] Han, Jing, et al. "Long-Term Selenium-Deficient Diet Induces Liver Damage by Altering Hepatocyte Ultrastructure and MMP1/3 and TIMP1/3 Expression in Growing Rats." Biological Trace Element Research (2016): 1-9. IHC-P;Rat.</p> <p style="text-align: center;">PubMed:27339256</p> <p>[IF=1.55] Yang, Jinjiang, Ying Lu, and Ai Guo. "Platelet-rich plasma protects rat chondrocytes from interleukin-1β-induced apoptosis." Molecular Medicine Reports 14.5 (2016): 4075-4082. WB;Rat.</p> <p style="text-align: center;">PubMed:27665780</p>
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human, Mouse, Rat, Dog, Pig, Horse, Sheep, Guinea Pig,
Applications:	WB=1:500-2000 ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 IF=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:	42/52kDa
Cellular localization:	Extracellular matrix Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human MMP3:401-477/477
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
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 an enzyme which degrades fibronectin, laminin, collagens III, IV, IX, and X, and cartilage proteoglycans. The enzyme is thought to be involved in wound repair, progression of atherosclerosis, and tumor initiation. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. [provided by RefSeq, Jul 2008].

Function:

Can degrade fibronectin, laminin, gelatins of type I, III, IV, and V; collagens III, IV, X, and IX, and cartilage proteoglycans. Activates procollagenase.

Subcellular Location:

Secreted, extracellular space, extracellular matrix (Probable).

Similarity:

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

SWISS:

P08254

Gene ID:

4314

Database links:

[Entrez Gene: 4314](#)Human

[Entrez Gene: 17392](#)Mouse

[Entrez Gene: 171045](#)Rat

[Omim: 185250](#)Human

[SwissProt: P08254](#)Human

[SwissProt: P28862](#)Mouse

[SwissProt: P03957](#)Rat

[Unigene: 375129](#)Human

Important Note:

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

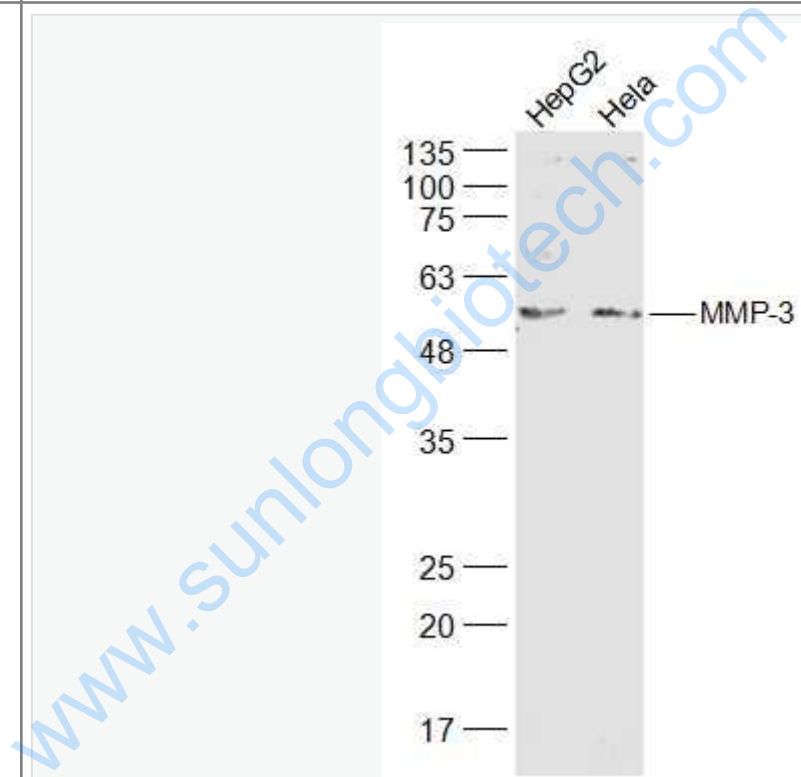
Synthesis and Degradation (Synthesis and Degradation)

基质金属蛋白酶(matrix metalloproteinases,

MMPs)是一族依赖锌离子而降解各种Extracellular matrix的蛋白酶, 亦称IV型胶原酶或称明胶酶A, 其主要功能为降解IV型胶原, 因而在Tumour细胞突破基底膜屏障和浸润转移中起重要作用。

MMP3目前主要用于各种恶性Tumour(如乳腺癌、胃肠道癌、卵巢癌、膀胱癌等)中的基底膜检测与Tumour转移浸润的研究。

Picture:



Sample:

HepG2(Human) Cell Lysate at 30 ug

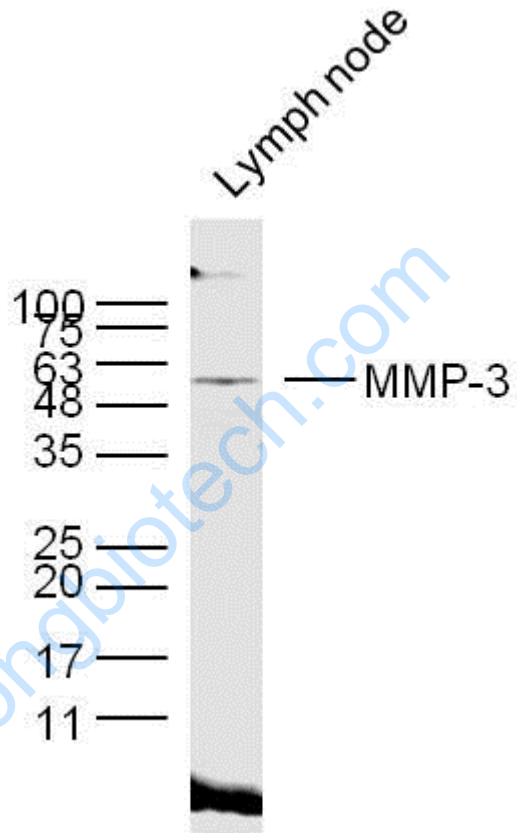
HeLa(Human) Cell Lysate at 30 ug

Primary: Anti-MMP-3 (SL0413R) at 1/500 dilution

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

Predicted band size: 42/52 kD

Observed band size: 52 kD



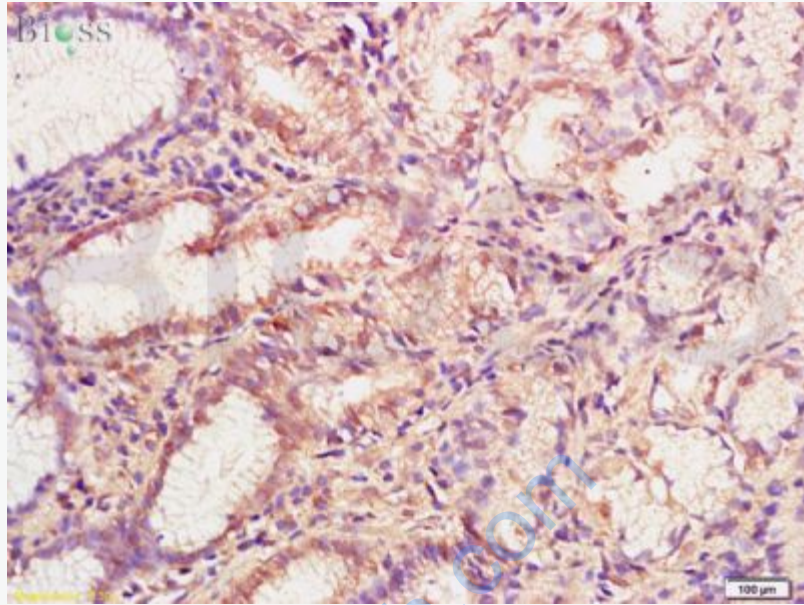
Sample: Lymph node (Mouse) Lysate at 30 ug

Primary: Anti- MMP-3 (SL0413R) at 1/300 dilution

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

Predicted band size: 42/52kD

Observed band size: 52kD



Tissue/cell: human gastric mucosa; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-MMP-3 Polyclonal Antibody, Unconjugated(SL0413R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining