




Rabbit Anti-MMP-1 antibody

SL4597R

Product Name:	MMP-1
Chinese Name:	基质金属蛋白酶-1抗体
Alias:	MMP-1; MMP1; CLGN; CLG; collagenase, fibroblast; Fibroblast collagenase; Interstitial collagenase; Matrix metalloproteinase 1 (interstitial collagenase); Matrix metalloproteinase 1; Matrix metalloproteinase-1; Matrix Metalloproteinase 1; MMP1 HUMAN; OTTHUMP00000045866;MMP 1.
文献引用 	Specific References(1) SL4597R has been referenced in 1 publications. [IF=3.71] Ma, Chuan, et al. (2014) "Effects of Chronic Sleep Deprivation on the Extracellular Signal-Regulated Kinase Pathway in the Temporomandibular Joint of Rats." PLoS ONE 9(9) (2014):e107544 WB;Rat. PubMed:25226519
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=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:	27/41/54kDa
Cellular localization:	Extracellular matrix
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human MMP-1:251-350/469
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:	<p>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 collagenase, gelatinase, stomelysin and membrane type MMP subfamilies. 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. MMPs are considered to play an important role in wound healing, apoptosis, bone elongation, embryo development, uterine involution, angiogenesis and tissue remodeling, and in diseases such as multiple sclerosis, Alzheimer's, malignant gliomas, lupus, arthritis, periodontitis, glumerulonephritis, atherosclerosis, tissue ulceration, and in cancer cell invasion and metastasis.</p> <p>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.</p> <p>Subunit: Interacts with HIV-1 Tat.</p> <p>Subcellular Location: Secreted, extracellular space, extracellular matrix (Probable).</p> <p>Similarity: Belongs to the peptidase M10A family. Contains 4 hemopexin-like domains.</p> <p>SWISS: P03956</p> <p>Gene ID: 4312</p> <p>Database links: Entrez Gene: 4312Human Entrez Gene: 17386Mouse</p>

[Entrez Gene: 397320](#)Pig

[Entrez Gene: 100009110](#)Rabbit

[Olim: 120353](#)Human

[SwissProt: P28053](#)Cow

[SwissProt: P03956](#)Human

[SwissProt: P33435](#)Mouse

[SwissProt: P21692](#)Pig

[SwissProt: P13943](#)Rabbit

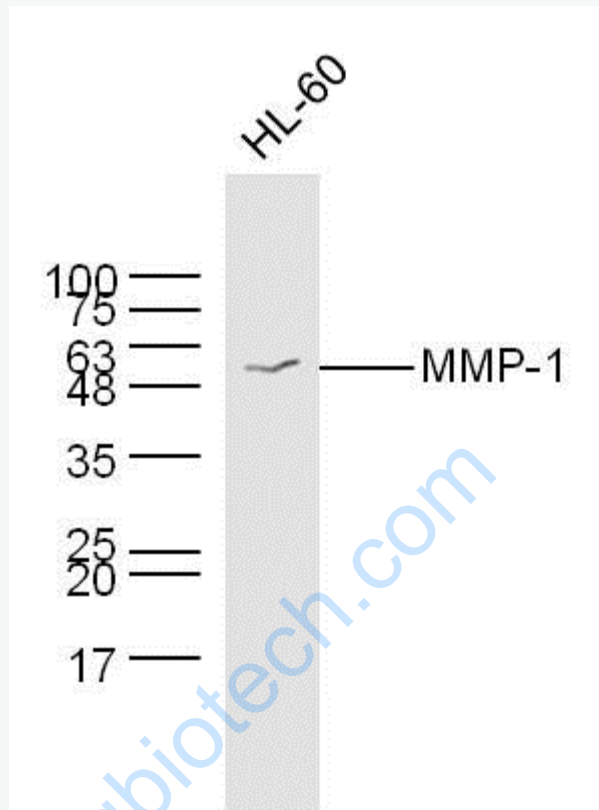
[Unigene: 83169](#)Human

Important Note:

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

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。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:

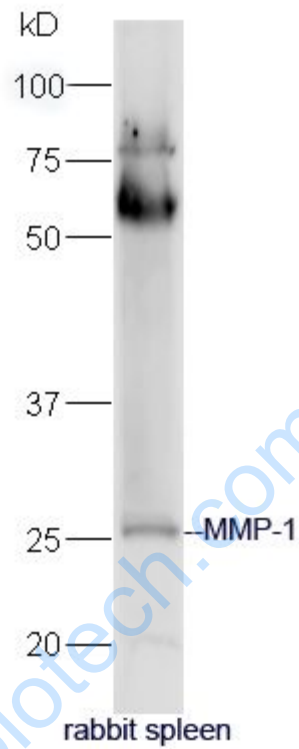
HL-60 Cell (Human) Lysate at 30 ug

Primary: Anti-MMP-1 (SL4597R) at 1/300 dilution

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

Predicted band size: 24 kD

Observed band size: 55/48 kD



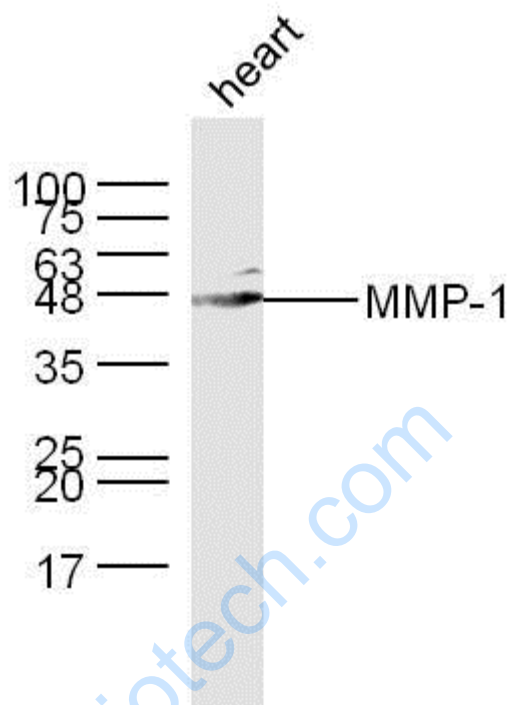
Sample: Spleen (Rabbit) Lysate at 40 ug

Primary: Anti-MMP-1 (SL4597R) at 1/300 dilution

Secondary: HRP conjugated Goat-Anti-rabbit IgG (SL4597R) at 1/5000 dilution

Predicted band size: 24/54 kD

Observed band size: 25 kD



Sample:

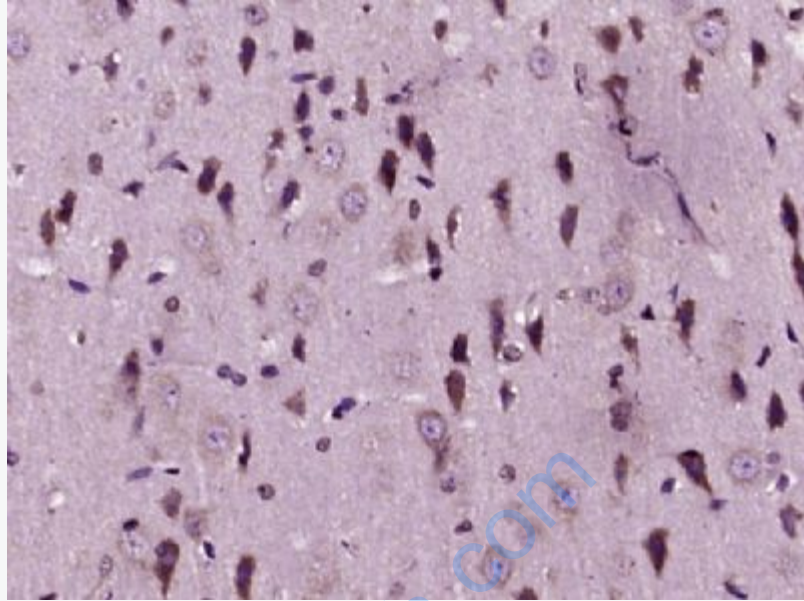
heart (Mouse) Lysate at 40 ug

Primary: Anti-MMP-1 (SL4597R) at 1/300 dilution

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

Predicted band size: 24 kD

Observed band size: 55/48 kD



Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MMP-1) Polyclonal Antibody, Unconjugated (SL4597R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.