SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-MMP3 antibody

SL0413R

Product Name	MMP3
Chinese Name	基质金属蛋白酶 3 抗体
Alias	MMP3_HUMAN; Stromelysin-1; EC:3.4.24.17; STMY1; SL-1; SL 1; SL1; Matrix metalloproteinase-3 (MMP-3); MMP-3; MMP 3; Transin-1;
Research Area	Tumour
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human
Applications	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	42/52kDa
Cellular localization	Extracellular matrix Secretory protein
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human MMP3: 401-477/477
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 ℃ 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.
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

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

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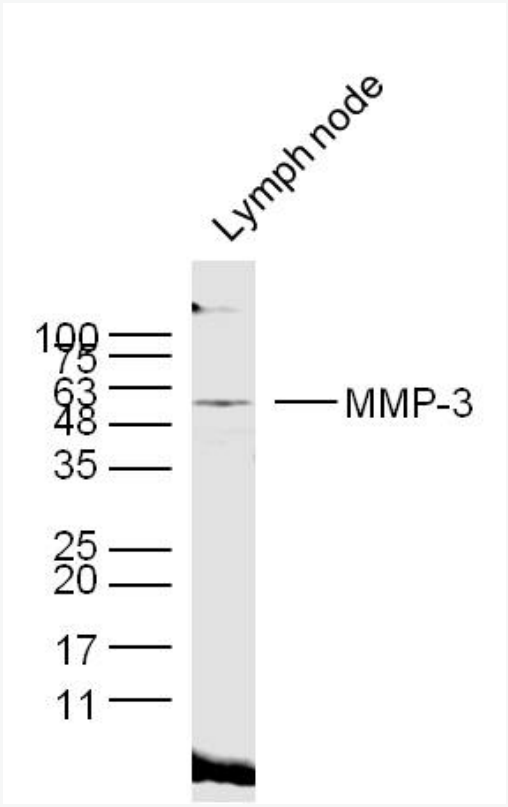
Extracellular matrix 的蛋白酶，亦称 IV 型胶原酶或称明胶酶 A，其主要功能为降解 IV 型胶原，因而它在 Tumour 细胞突破基底膜屏障和浸润转移中起重要作用。
MMP3 目前主要用于各种恶性 Tumour(如乳腺癌、胃肠道癌、卵巢癌、膀胱癌等)中的基底膜检测与 Tumour 转移浸润的研究。

Product Picture



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

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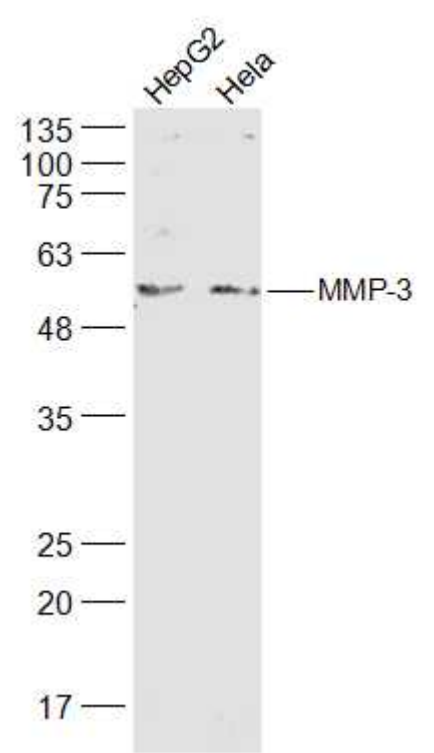

Sample:

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

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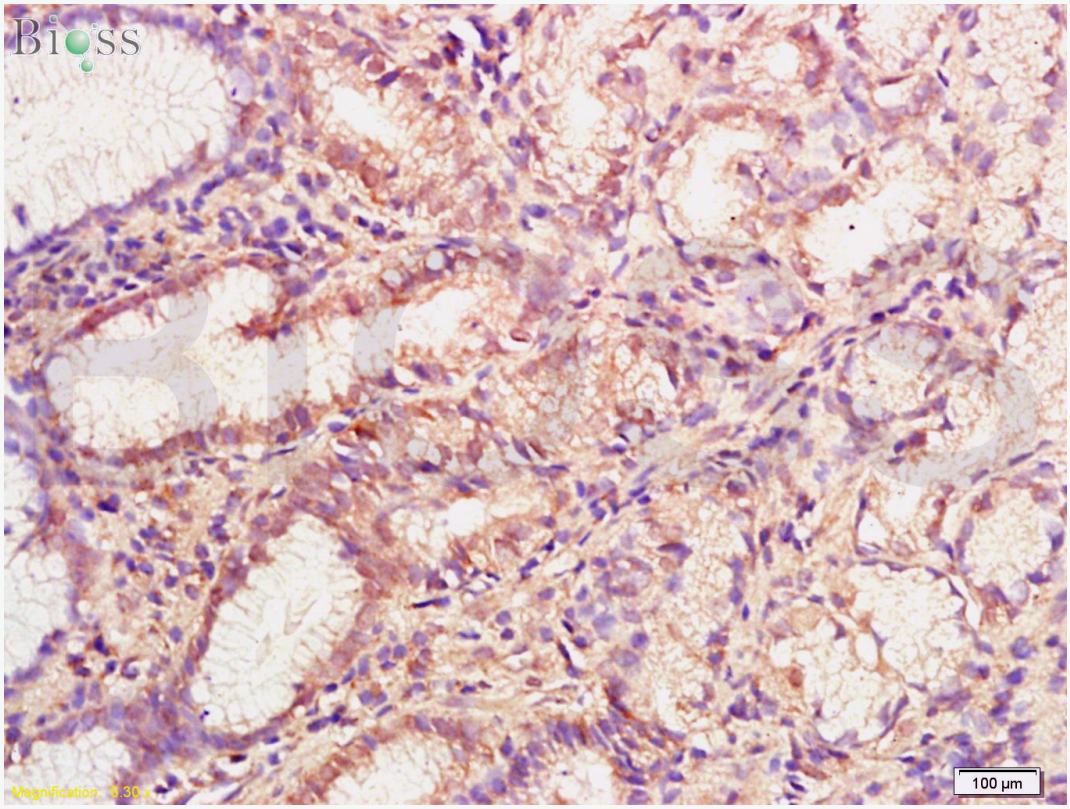

Tissue/cell: human gastric mucosa; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, 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℃ 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