

## Rabbit Anti-MMP7 antibody

SL0423R

**Product Name** MMP7

**Chinese Name** 基质金属蛋白酶-7 抗体

**Alias** Matrilysin; Matrilysin uterine; Matrin; Matrix Metalloproteinase 7; MMP-7; MMP 7; MMP7; MPSL1; PUMP 1; Pump 1 protease; PUMP1; Uterine Matrilysin; Uterine metalloproteinase; MMP7\_HUMAN.

**Research Area** Tumour immunology Neurobiology Apoptosis

**Immunogen Species** Rabbit

**Clonality** Polyclonal

**React Species** Human, Mouse, (predicted: Rat, )  
WB=1:500-2000,IHC-P=1:50-200,IHC-F=1:50-200,IF=1:50-200,ELISA=1:2000-10000  
(Paraffin sections need antigen repair)

**Applications** not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.

**Theoretical molecular weight** 30kDa

**Cellular localization** Extracellular matrix Secretory protein

**Form** Liquid

**Concentration** 1mg/ml

**immunogen** KLH conjugated synthetic peptide derived from human MMP7: 151-250/269

**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°C. Store at -20 °C 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](#)

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. The enzyme encoded by this gene degrades proteoglycans, fibronectin, elastin and casein and differs from most MMP family members in that it lacks a conserved C-terminal protein domain. The enzyme is involved in wound healing, and studies in mice suggest that it regulates the activity of defensins in intestinal mucosa. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. [provided by RefSeq, Jul 2008]

**Function:**

Degrades casein, gelatins of types I, III, IV, and V, and fibronectin. Activates procollagenase.

**Subcellular Location:**

Secreted, extracellular space, extracellular matrix (Probable).

**Similarity:**

Belongs to the peptidase M10A family.

**Product  
Detail**

**SWISS:**  
P09237

**Gene ID:**  
4316

**Database links:**

[Entrez Gene: 4316](#) Human

[Entrez Gene: 17393](#) Mouse

[Entrez Gene: 25335](#) Rat

[Omim: 178990](#) Human

[SwissProt: P09237](#) Human

[SwissProt: Q10738](#) Mouse

[SwissProt: P50280](#) Rat

[Unigene: 2256](#) Human

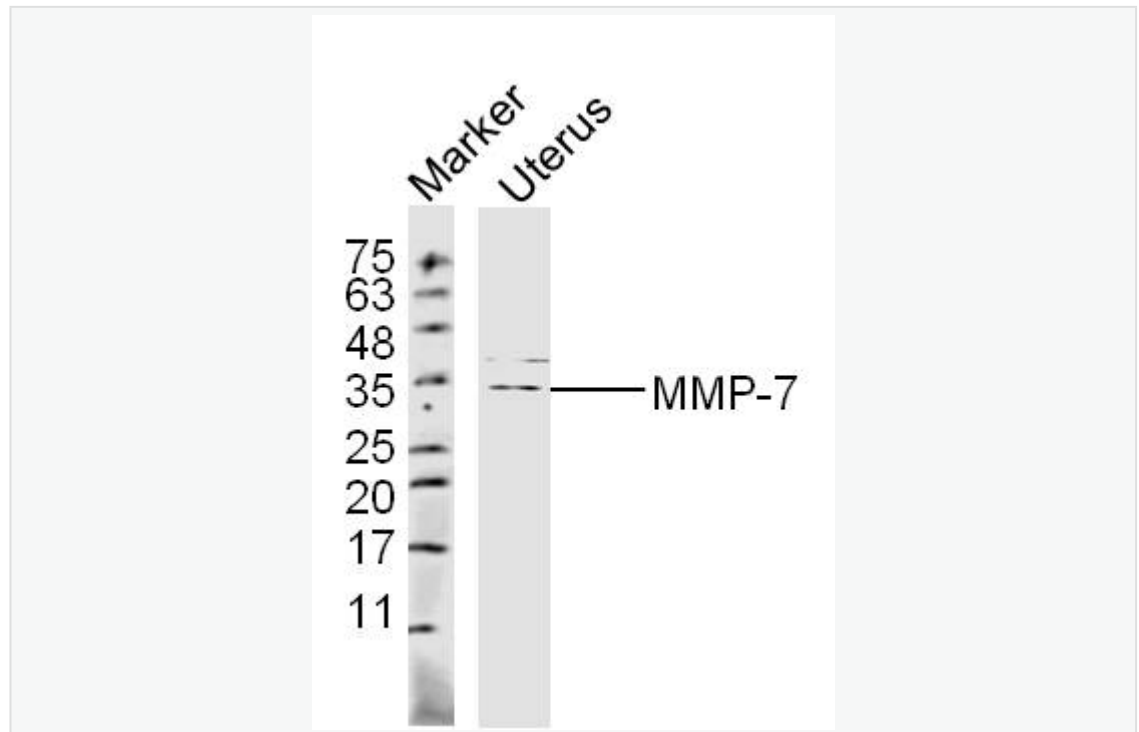
[Unigene: 4825](#) Mouse

[Unigene: 10282](#) Rat

### Synthesis and Degradation (Synthesis and Degradation)

MMP7 属于 MMP 基因家族的成员之一，MMP-7 又称溶基质蛋白素(Matrilysin)，其主要功能为降解粘蛋白、纤维连结蛋白和层粘连蛋白，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)转移、浸润的研究及用于机体各种组织的发育和修复、Tumour 发生发展、炎症反应等过程中作用的研究。

### Product Picture



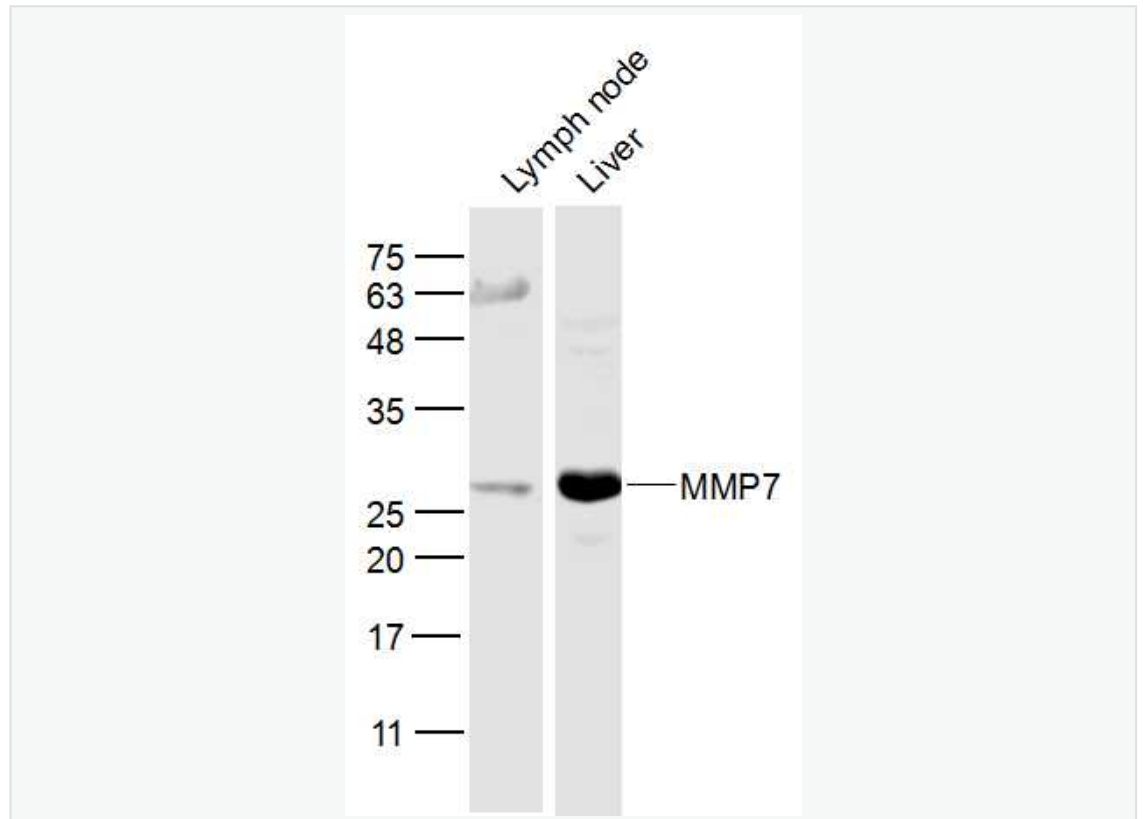
Sample: Uterus (Mouse) Lysate at 30 ug

Primary: Anti- MMP-7 (SL0423R) at 1/300 dilution

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

Predicted band size: 30 kD

Observed band size: 34 kD



Sample:

Lymph node(Rat) Lysate at 40 ug

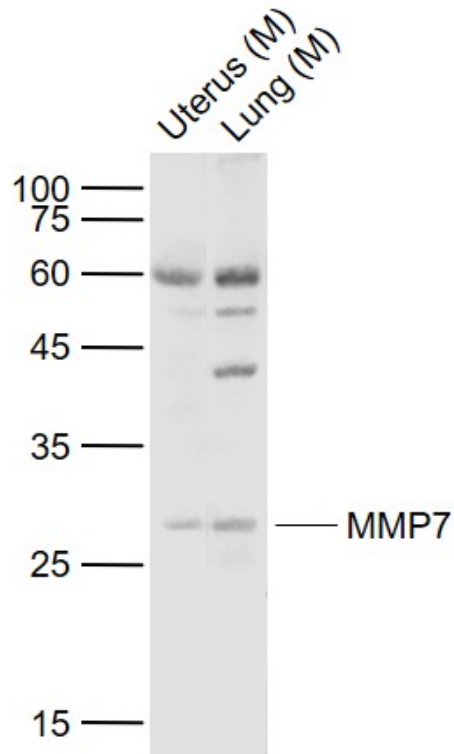
Liver (Mouse) Lysate at 40 ug

Primary: Anti-MMP7 (SL0423R) at 1/300 dilution

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

Predicted band size: 30 kD

Observed band size: 30 kD



Sample:

Lane 1: Uterus (Mouse) Lysate at 40 ug

Lane 2: Lung (Mouse) Lysate at 40 ug

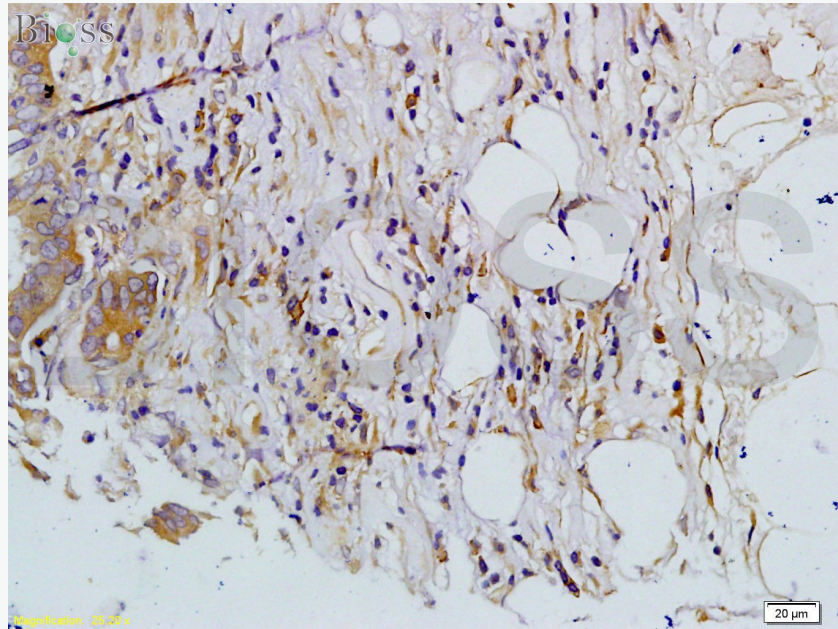
Primary:

Anti- MMP7 (SL0423R) at 1/1000 dilution

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

Predicted band size: 27 kD

Observed band size: 27 kD



**bs-0423R Anti-MMP-7 Polyclonal Antibody**

Tissue/cell: human colon carcinoma; 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) at 37 °C for 20 min

Incubation: Anti-MMP-7 Polyclonal Antibody, Unconjugated(bs-0423R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining