

**Anti-MMP-7 Antibody**  
Catalog # ABO11760

**Specification**

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**Anti-MMP-7 Antibody - Product Information**

Application	IHC, WB
Primary Accession	<a href="#">P09237</a>
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Matrilysin(MMP7) detection. Tested with WB, IHC-P, ELISA in Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-MMP-7 Antibody - Additional Information**

**Gene ID** 4316

**Other Names**

Matrilysin, 3.4.24.23, Matrin, Matrix metalloproteinase-7, MMP-7, Pump-1 protease, Uterine metalloproteinase, MMP7, MPSL1, PUMP1

**Calculated MW**

29677 MW KDa

**Application Details**

ELISA , 0.1-0.5 µg/ml, Human, -<br>Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat<br>Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Secreted, extracellular space, extracellular matrix .

**Protein Name**

Matrilysin

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>N.

**Immunogen**

E.coli-derived human MMP7 recombinant protein (Position: M1-K267). Human MMP7 shares 71% amino acid (aa) sequence identity with both mouse and rat MMP7.

**Purification**

Immunogen affinity purified.

### Cross Reactivity

No cross reactivity with other proteins

### Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

### Sequence Similarities

Belongs to the peptidase M10A family.

## Anti-MMP-7 Antibody - Protein Information

**Name** MMP7

**Synonyms** MPLS1, PUMP1

### Function

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

### Cellular Location

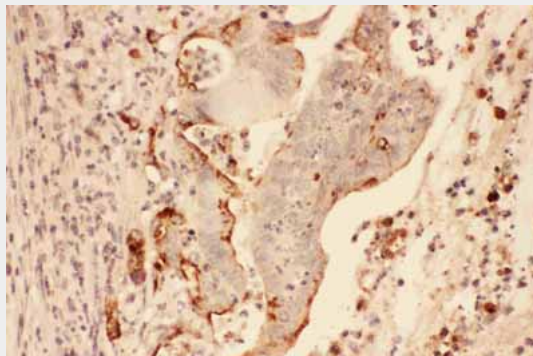
Secreted, extracellular space, extracellular matrix

## Anti-MMP-7 Antibody - Protocols

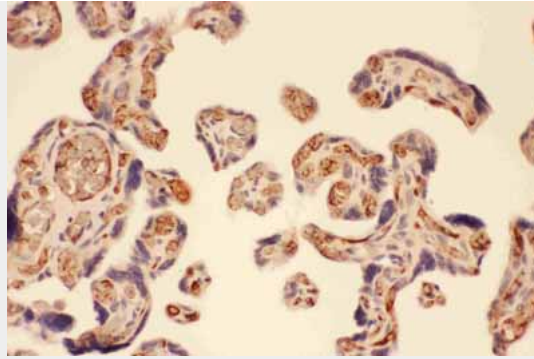
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

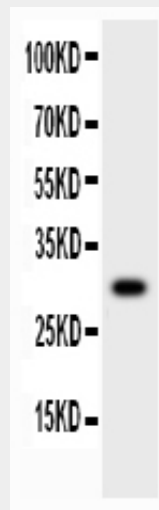
## Anti-MMP-7 Antibody - Images



Anti-MMP7 Picoband antibody, ABO11760-1.JPGIHC(P): Human Intestinal Cancer Tissue



Anti-MMP7 Picoband antibody, ABO11760-2.JPGIHC(P): Human Placenta Tissue



Anti-MMP7 Picoband antibody, ABO11760-3.jpg All lanes: Anti-MMP7 (ABO11760) at 0.5ug/ml WB: A549 Whole Cell Lysate at 40ug Predicted bind size: 30KD Observed bind size: 30KD

### Anti-MMP-7 Antibody - Background

Matrix metalloproteinase-7 (MMP-7) previously called putative metalloproteinase I (PUMP1) or matrilysin. The MMP-7 gene has been identified through studies of collagenase-related connective-tissue-degrading metalloproteinases produced by human tumors. The MMP-7 protein has 267 amino acids and is significantly shorter than stromelysin or collagenase (477 and 469 amino acids, respectively). Matrix metalloproteinases play a crucial role in tumor invasion and metastasis. MMP-7, a member of the matrix metalloproteinase family, is structurally different from the other matrix metalloproteinases by virtue of the absence of a conserved COOH-terminal protein domain. In addition, MMP-7 mRNA is regulated in a specific and distinct manner in normal and malignant tissues. MMP-7 has been shown to correlate with nodal or distant metastasis in colorectal carcinomas, however, its implication in early invasive colorectal carcinomas has not been determined. MMP-7 is also a mediator of pulmonary fibrosis and a potential therapeutic target. The standard product used in this kit is recombinant human MMP-7, consisting of 250 amino acids with the molecular mass of 28KDa. The detected MMP-7 includes zymogen and active enzyme.