

## Anti-MMP7 Antibody Picoband® Biotin Conjugated

Catalog Number: PB9038-Biotin

### About Mmp7

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.

### Overview

Product Name	Anti-MMP7 Antibody Picoband® Biotin Conjugated
Reactive Species	Mouse, Rat
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q10738

### Technical Details

Immunogen	E.coli-derived mouse MMP7 recombinant protein (Position: Y95-L264). Mouse MMP7 shares 71% and 90% amino acid (aa) sequences identity with human and rat MMP7, respectively.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Biotin

Suggested Dilutions

The intended application should be selected according to the customer's experimental requirements.

## 9 Publications Citing This Product

1. PubMed ID: 10.3892/mmr.2016.5148, Herbal medicine Gan $\text{fu}$ kan $\text{g}$  downregulates Wnt/Ca $^{2+}$  signaling to attenuate liver fibrogenesis in vitro and in vivo
2. PubMed ID: 21109985, Yang Y, Shi H, Li X, Yi Y. Oncol Rep. 2011 Jan;25(1):259-65. Effects Of Shrna Targeting Maspin On Invasion Of Gastric Carcinoma Sgc7901 Cell Line.
3. PubMed ID: 28656209, Hydrogen sulfide reduced renal tissue fibrosis by regulating autophagy in diabetic rats

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