

## Anti-MMP7 Antibody Picoband® Biotin Conjugated

Catalog Number: PB9037-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	Human
Application	WB, IHC, ELISA
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% Na <sub>3</sub> N.
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P09237

### Technical Details

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.
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	Western blot, Optimal dilutions should be determined by end users. Immunohistochemistry (Paraffin-embedded Section), Optimal dilutions should be determined by end users. ELISA, Optimal dilutions should be determined by end users.

## 12 Publications Citing This Product

1. PubMed ID: 10.3892/or.2015.4502, MicroRNA-148a inhibits breast cancer migration and invasion by directly targeting WNT-1
2. PubMed ID: 10.3892/or\_00001069, Effects of shRNA targeting maspin on invasion of gastric carcinoma SGC7901 cell line
3. PubMed ID: 10.1111/jphp.12402, Shikonin inhibits the cell viability, adhesion, invasion and migration of the human gastric cancer cell line MGC803 via the Toll-like receptor 2/nuclear factor- $\kappa$ B pathway

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