

Anti-MMP7 Antibody Picoband® Fluoro488 Conjugated

Catalog Number: PB9038-Fluoro488

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® Fluoro488 Conjugated
Reactive Species	Mouse, Rat
Application	Recommended applications are based on the parent unconjugated antibody (ELISA, IHC, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% Na ₃ N.
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
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	Fluoro488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Suggested Dilutions	Optimal dilutions should be determined by end users.

9 Publications Citing This Product

1. PubMed ID: 10.3892/mmr.2016.5148, Herbal medicine Gan β fu π kang downregulates Wnt/Ca²⁺ 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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