

Datasheet for ABIN3043881
anti-MMP7 antibody (AA 95-264)

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Overview

Quantity:	100 µg
Target:	MMP7
Binding Specificity:	AA 95-264
Reactivity:	Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Matrilysin(MMP7) detection. Tested with WB, IHC-P, ELISA in Mouse,Rat.
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.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Matrilysin(MMP7) detection. Tested with WB, IHC-P, ELISA in Mouse,Rat.</p> <p>Gene Name: matrix metalloproteinase 7 (matrilysin, uterine)</p> <p>Protein Name: Matrilysin</p>
Purification:	Immunogen affinity purified.

Target Details

Target:	MMP7
Alternative Name:	MMP7 (MMP7 Products)
Background:	<p>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.</p> <p>Synonyms: Matrilysin antibody Matrilysin uterine antibody Matrin antibody Matrix Metalloproteinase 7 antibody Matrix metalloproteinase-7 antibody MMP 7 antibody MMP-7 antibody MMP7 antibody MMP7_HUMAN antibody MPSL1 antibody PUMP 1 antibody Pump 1 protease antibody Pump-1 protease antibody PUMP1 antibody Uterine Matrilysin antibody Uterine metalloproteinase antibody</p>
Gene ID:	17393
UniProt:	Q10738
Pathways:	Production of Molecular Mediator of Immune Response

Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse, The detection limit for MMP7 is approximately 0.25 ng/lane under reducing conditions.</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>ELISA: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse</p>
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Application Details

Notes: Tested Species: Species with positive results. Other applications have not been tested.
Optimal dilutions should be determined by end users.

Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
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Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
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Concentration:	500 µg/mL
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Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
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Preservative:	Sodium azide
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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Handling Advice:	Avoid repeated freezing and thawing.
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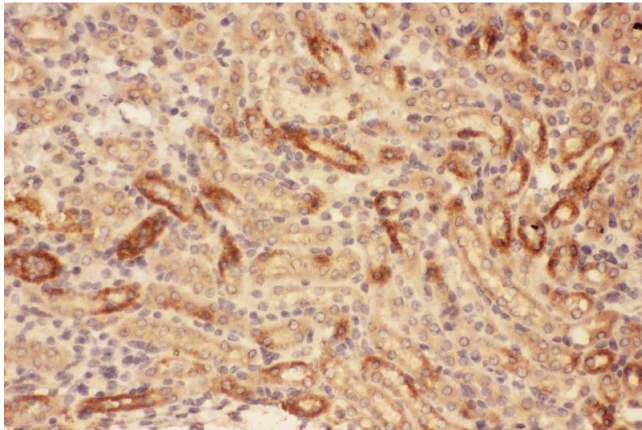
Storage:	4 °C/-20 °C
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Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
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Publications

Product cited in:	Liu, Chen, Wang, Yang, Xue, Zhu: "Msi1 confers resistance to TRAIL by activating ERK in liver cancer cells." in: FEBS letters , Vol. 589, Issue 8, pp. 897-903, (2015) (PubMed).
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There are more publications referencing this product on: [Product page](#)



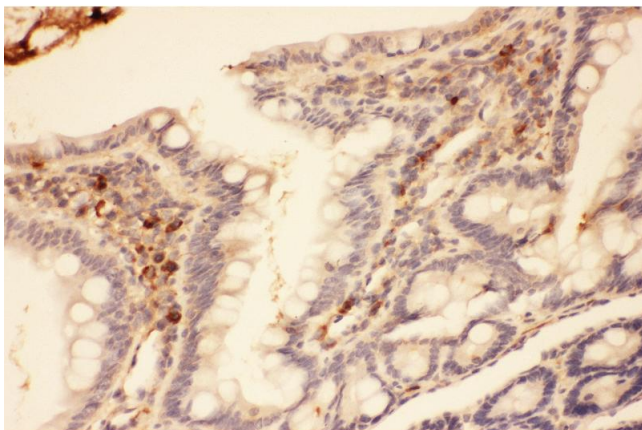
Immunohistochemistry

Image 1. Anti-MMP7 Picoband antibody, IHC(P): Mouse Kidney Tissue



Western Blotting

Image 2. Anti-MMP7 Picoband antibody, All lanes: Anti-MMP7 at 0.5ug/ml WB: Rat Brain Tissue Lysate at 40ug
Predicted bind size: 30KD Observed bind size: 30KD



Immunohistochemistry

Image 3. Anti-MMP7 Picoband antibody, IHC(P): Rat intestines Tissue