

Datasheet for ABIN3043880
anti-MMP7 antibody (AA 1-267)

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Overview

Quantity:	100 µg
Target:	MMP7
Binding Specificity:	AA 1-267
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MMP7 antibody is un-conjugated
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 Human.
Immunogen:	E.coli-derived human MMP7 recombinant protein (Position: M1-K267). Human MMP7 shares 71% amino acid (aa) sequences identity with both mouse and rat MMP7.
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 Human.</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:	4316
UniProt:	P09237
Pathways:	Production of Molecular Mediator of Immune Response

Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, 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: Human, 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: Human</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).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

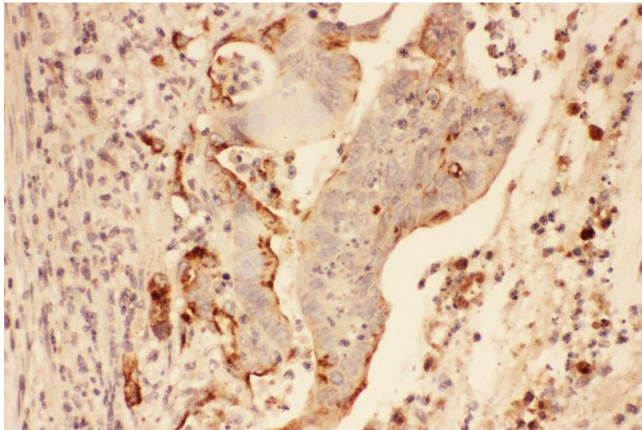
Storage: 4 °C/-20 °C

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.

Publications

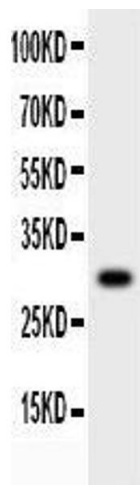
Product cited in: Li, Zhao, Qi, Wang, Zhang, Li, Qin: "lncRNA Ftx promotes aerobic glycolysis and tumor progression through the PPAR γ pathway in hepatocellular carcinoma." in: **International journal of oncology**, Vol. 53, Issue 2, pp. 551-566, (2018) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



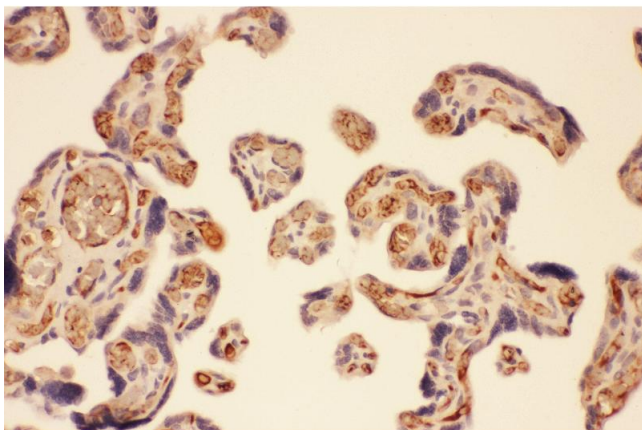
Immunohistochemistry

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



Western Blotting

Image 2. Anti-MMP7 Picoband antibody, All lanes: Anti-MMP7 at 0.5ug/ml WB: A549 Whole Cell Lysate at 40ug
Predicted bind size: 30KD Observed bind size: 30KD



Immunohistochemistry

Image 3. Anti-MMP7 Picoband antibody, IHC(P): Human Placenta Tissue