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Anti-MMP-7 Antibody

Catalog # ABO11760

Product Information

Application	WB, IHC-P, E
Primary Accession	P09237
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Matrilysin(MMP7) detection. Tested with WB, IHC-P, ELISA in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	4316
Other Names	Matrilysin, 3.4.24.23, Matrin, Matrix metalloproteinase-7, MMP-7, Pump-1 protease, Uterine metalloproteinase, MMP7, MPSL1, PUMP1
Calculated MW	29677
Application Details	ELISA , 0.1-0.5 □g/ml, Human, - Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, By Heat Western blot, 0.1-0.5 □g/ml, Human
Subcellular Localization	Secreted, extracellular space, extracellular matrix .
Source	Eukaryota
Protein Name	Matrilysin
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20˚C for one year. After r˚Constitution, 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.
Sequence Similarities	Belongs to the peptidase M10A family.

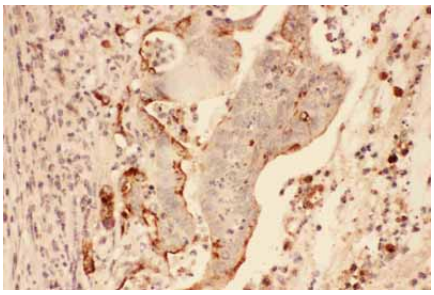
Protein Information

Name	MMP7
Synonyms	MPSL1, PUMP1
Function	Degrades casein, gelatins of types I, III, IV, and V, and fibronectin. Activates procollagenase.
Cellular Location	Secreted, extracellular space, extracellular matrix

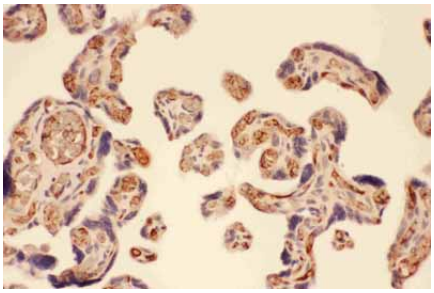
Background

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.

Images

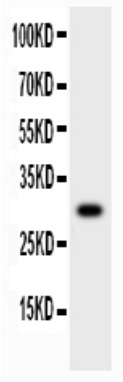


Anti-MMP7 Picoband antibody, ABO11760-1.JPGIHC(P): Human Intestinal Cancer Tissue



Anti-MMP7 Picoband antibody, ABO11760-2.JPGIHC(P): Human Placenta Tissue

Anti-MMP7 Picoband antibody, ABO11760-3.jpgAll lanes: Anti-MMP7(ABO11760) at 0.5ug/mlWB: A549 Whole Cell Lysate at 40ugPredicted bind size: 30KDObserved bind size: 30KD



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.