

Human MMP-7 ELISA Kit | MMP7 elisa kit

Human MMP-7 PicoKine ELISA Kit

CATALOG #
AAA45320

REACTIVITY
Human

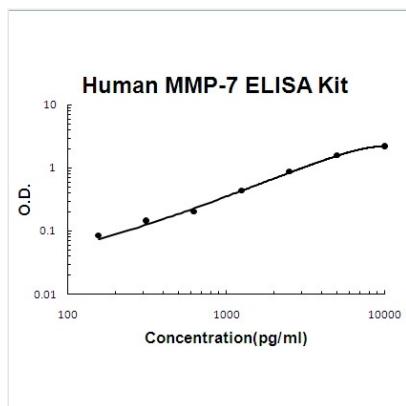
PRODUCT SYNONYMS

MMP-7; Human MMP-7 PicoKine ELISA Kit; Matrilysin; matrix metalloproteinase 7 (matrilysin; uterine); Matrin; Matrix metalloproteinase 7; Matrix metalloproteinase-7; MMP7; MMP7_HUMAN; MPSL1; Pump 1 protease; Pump-1 protease; PUMP1; Uterine metalloproteinase; MMP7 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human total MMP-7
Sequence Length	267
Samples	Cell culture supernates, serum, plasma (heparin), saliva and urine
Assay Type	Sandwich
Detection Range	156pg/ml-10,000pg/ml
Sensitivity	<6pg/ml
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Human MMP-7 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for MMP7 elisa kit

Principle of the assay: human MMP-7 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for MMP-7 has been precoated onto 96-well plates. Standards(NSO,L18-K267) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for MMP-7 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human MMP-7 amount of sample captured in plate.

Background: Matrix metalloproteinase-7 (MMP-7) previously called putative metalloproteinase I (PUMP1) or matrilysin. The PUMP1 gene has been identified through studies of collagenase-related connective-tissue-degrading metalloproteinases produced by human tumors. The PUMP I 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. Matrilysin, 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, matrilysin mRNA is regulated in a specific and distinct manner in normal and malignant tissues. Matrilysin 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.¹ Matrilysin 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	116861
NCBI GeneID	4316
UniProt Accession #	P09237; Q9BTK9
Molecular Weight	29,677 Da
NCBI Official Full Name	Matrilysin
NCBI Official Synonym Full Names	matrix metalloproteinase 7 (matrilysin, uterine)
NCBI Official Symbol	MMP7
NCBI Official Synonym Symbols	MMP-7; MPSL1; PUMP-1
NCBI Protein Information	matrilysin; matrin; pump-1 protease; uterine matrilysin; uterine metalloproteinase; matrix metalloproteinase-7; matrix metalloproteinase 7 (matrilysin, uterine)
UniProt Protein Name	Matrilysin
UniProt Gene Name	MMP7
UniProt Synonym Gene Names	MPSL1; PUMP1; MMP-7
UniProt Entry Name	MMP7_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/mmp7-human-elisa-kits/mmp-7/45320>