MMP7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MMP7, Polyclonal Antibody
Full Product Name	MMP7 (Matrilysin, Matrin, Matrix Metalloproteinase-7, MMP-7, Pump-1 Protease, Uterine Metalloproteinase, MPSL1, PUMP1) (MaxLight 405)
Product Gene Name	anti-MMP7 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human MMP7.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Molecular Weight	29,677 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (102391239..102401478, complement). Location: 11q21-q22
OMIM	178990
3D Structure	ModBase 3D Structure for P09237
Immunogen	Full length human MMP7, aa1-267 (NP_002414.1).
Immunogen Sequence	MRLTVLCAVCLLPGSLALPLPQEAGGMSELQWEQAQDYLKRFYLYDSETKNANSLEAKLKEMQKFFGLPITGMLNSRVIEIMQKPRCGVPDVAEYSLFPN
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-MMP7 antibody	Antibodies; Matrix Metalloproteinases
Applications Tested/Suitable for anti-MMP7 antibody	Western Blot (WB)
Application Notes for anti-MMP7 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-MMP7 antibody	Defensins are a large family of broad-spectrum antimicrobial peptides, identified originally in leukocytes of rabbits and humans. The genes encoding alp mature and bioactive defensin peptide. Matrilysin is expressed in Paneth cell granules together with perhaps more than 20 different-defensins (cryptidin collagen types IV and X, elastin, fibronectin, gelatin, laminin and proteoglycans. MMP-7 is closely related to the stromelysin family members but is enco activated in vitro by organomercurials and trypsin and in vivo by MMP-3 to a 18kD active MMP-7 enzyme. Once activated, MMP-7 can activate pro-MM gliomas.
Other Notes	Small volumes of anti-MMP7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess
Searchable Terms for MMP7 purchase	MBS6385692 is an antibody targeting MMP7. Also known as MMP7 (Matrilysin, Matrin, Matrix Metalloproteinase-7, MMP-7, Pump-1 Protease, Uterine

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MMP7. It may not necessarily be applicable to this product.

NCBI GI #	4505219
NCBI GeneID	4316
NCBI Accession #	NP_002414.1
UniProt Primary Accession #	P09237
UniProt Secondary Accession #	Q9BTK9
UniProt Related Accession #	P09237
GenBank Nucleotide #	NM_002423
NCBI Official Full Name	matrilysin preproprotein
NCBI Official Synonym Full Names	matrix metallopeptidase 7 (matrilysin, uterine)
NCBI Official Symbol	MMP7
NCBI Official Synonym Symbols	MMP-7; MPSL1; PUMP-1
UniProt Protein Name	Matrilysin
UniProt Synonym Protein Names	Matrin; Matrix metalloproteinase-7; MMP-7; Pump-1 protease; Uterine metalloproteinase
Protein Family	Matrilysin
UniProt Gene Name	MMP7
UniProt Synonym Gene Names	MPSL1; PUMP1; MMP-7
UniProt Entry Name	MMP7_HUMAN
NCBI Protein Information	matrilysin; matrin; pump-1 protease; uterine matrilysin; uterine metalloproteinase; matrix metalloproteinase-7; matrix metalloproteinase 7 (matrilysin, uterine)
NCBI Summary for MMP7	Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The enzyme encoded by this gene degrades proteoglycans, fibronectin, elastin and casein and differs from most MMP family members in that it lacks a conserved C-terminal protein domain. The enzyme is involved in wound healing, and studies in mice suggest that it regulates the activity of defensins in intestinal mucosa. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. [provided by RefSeq, Jul 2008]

UniProt Comments for MMP7	MMP7: Degrades casein, gelatins of types I, III, IV, and V, and fibronectin. Activates procollagenase. Belongs to the peptidase M10A family. Protein type: Secreted; Secreted, signal peptide; Protease; EC 3.4.24.23 Chromosomal Location of Human Ortholog: 11q22.2 Cellular Component: extracellular space; proteinaceous extracellular matrix; extracellular region Molecular Function: zinc ion binding; metalloendopeptidase activity Biological Process: response to drug; collagen catabolic process; extracellular matrix disassembly; extracellular matrix organization and biogenesis; defense response to Gram-positive bacterium; antibacterial peptide biosynthetic process; defense response to Gram-negative bacterium; proteolysis; antibacterial peptide secretion; regulation of cell proliferation
Research Articles on MMP7	**1.** Data indicate that a serum biomarker panel consisting of CA19-9, cathepsin D, and MMP-7 may provide the most effective screening test currently feasible for Pancreatic ductal adenocarcinoma.
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