MMP9 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MMP9, Polyclonal Antibody
Full Product Name	MMP9, CT (Matrix Metalloproteinase-9, MMP-9, 92kD type IV Collagenase, 92kD Gelatinase, Gelatinase B, GELB, CLG4B) (MaxLight 550)
Product Gene Name	anti-MMP9 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human MMP9. Species crossreactivity: mouse
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 amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	Predicted: 76 kDa Observed: 73kDa
OMIM	120361
3D Structure	ModBase 3D Structure for P14780
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 644-673 in the C-terminal region of human MMP9, UniProt Accession #P14780
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-MMP9 antibody	Antibodies; Matrix Metalloproteinases
Applications Tested/Suitable for anti-MMP9 antibody	Immunohistochemistry (IHC), Western Blot (WB), FLISA
Application Notes for anti-MMP9 antibody	IHC: 1:50-1:100 WB: 1:1000 Applications are based on unconjugated antibody.
Related Product Information for anti-MMP9 antibody	MBS6487014 is an antibody targeting MMP9. Also known as MMP9, CT (Matrix Metalloproteinase-9, MMP-9, 92kD type IV Collagenase, 92kD Gelatinase, Gelatinase B, GELB, CLG4B) (MaxLight 550). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-MMP9 antibody	1. Tutton, M.G., et al., Int. J. Cancer 107(4):541-550 (2003). 2. Behrens, P., et al., Int. J. Cancer 107(2):183-188 (2003). 3. Van den Steen, P.E., et al., Biochem. Biophys. Res. Commun. 310(3):889-896 (2003). 4. Zhao, Z., et al., J. Infect. Dis. 188(8):1098-1104 (2003). 5. Matsuyama, A., et al., Circulation 108(12):1469-1473 (2003).

Other Notes	Small volumes of anti-MMP9 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MMP9. It may not necessarily be applicable to this product.

NCBI GI #	74272287
NCBI GeneID	4318
NCBI Accession #	NP_004985
UniProt Primary Accession #	P14780
UniProt Secondary Accession #	Q3LR70; Q8N725; Q9H4Z1; Q9UCJ9; Q9UCL1; Q9UDK2; B2R7V9
UniProt Related Accession #	P14780
GenBank Nucleotide #	NM_004994.2
NCBI Official Full Name	matrix metalloproteinase-9 preproprotein
NCBI Official Synonym Full Names	matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)
NCBI Official Symbol	MMP9
NCBI Official Synonym Symbols	GELB; CLG4B; MMP-9; MANDP2
UniProt Protein Name	Matrix metalloproteinase-9
UniProt Synonym Protein Names	92 kDa gelatinase; 92 kDa type IV collagenase; Gelatinase B
Protein Family	Matrix metalloproteinase
UniProt Gene Name	MMP9
UniProt Synonym Gene Names	CLG4B; MMP-9; GELB
UniProt Entry Name	MMP9_HUMAN
NCBI Protein Information	matrix metalloproteinase-9; type V collagenase; macrophage gelatinase; matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)
NCBI Summary for MMP9	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 type IV and V collagens. Studies in rhesus monkeys suggest that the enzyme is involved in IL-8-induced mobilization of hematopoietic progenitor cells from bone marrow, and murine studies suggest a role in tumor-associated tissue remodeling. [provided by RefSeq, Jul 2008]

UniProt Comments for MMP9	MMP9: May play an essential role in local proteolysis of the extracellular matrix and in leukocyte migration. Could play a role in bone osteoclastic resorption. Cleaves KiSS1 at a Gly-|-Leu bond. Cleaves type IV and type V collagen into large C-terminal three quarter fragments and shorter N-terminal one quarter fragments. Degrades fibronectin but not laminin or Pz-peptide. Exists as monomer or homodimer; disulfide-linked. Exists also as heterodimer with a 25 kDa protein. Macrophages and transformed cell lines produce only the monomeric form. Interacts with ECM1. Activated by 4-aminophenylmercuric acetate and phorbol ester. Up-regulated by ARHGEF4, SPATA13 and APC via the JNK signaling pathway in colorectal tumor cells. Produced by normal alveolar macrophages and granulocytes. Inhibited by histatin-3 1/24 (histatin-5). Inhibited by ECM1. Belongs to the peptidase M10A family. Protein type: Protease; EC 3.4.24.35; Secreted; Motility/polarity/chemotaxis; Secreted, signal peptide Chromosomal Location of Human Ortholog: 20q13.12 Cellular Component: proteinaceous extracellular matrix; extracellular space; extracellular region Molecular Function: collagen binding; identical protein binding; protein binding; zinc ion binding; metalloendopeptidase activity; endopeptidase activity Biological Process: positive regulation of keratinocyte migration; axon guidance; ossification; extracellular matrix organization and biogenesis; macrophage differentiation; positive regulation of apoptosis; proteolysis; extracellular matrix disassembly; collagen catabolic process; ephrin receptor signaling pathway; skeletal development; leukocyte migration; embryo implantation Disease: Metaphyseal Anadysplasia 2
Research Articles on MMP9	**1.** These data demonstrate that the exposure of neutrophils to allergens leads to generation of MMP-9, which may then lead to remodelling in asthma.
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