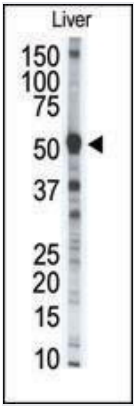
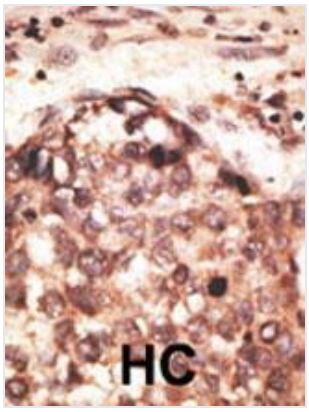
MMP8 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MMP8, Polyclonal Antibody
Full Product Name	MMP8, ID (Matrix Metalloproteinase 8) (MaxLight 490)
Product Gene Name	anti-MMP8 antibody
Product Synonym Gene Name	MM8
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 MaxLight490.
Purity/Purification	Purified by Protein A/G Affinity Chromatography.
Specificity	Recognizes human MMP8. 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: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	44.3 kDa (390aa)
OMIM	120355
3D Structure	ModBase 3D Structure for P22894
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 286-315 in the central region of human MMP8, UniProt Accession #NP_002415; P22894.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-MMP8 antibody	Antibodies; Matrix Metalloproteinases
Applications Tested/Suitable for anti-MMP8 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-MMP8 antibody	IHC: 1:50-1:100 FLISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-MMP8 antibody	MBS6487002 is an antibody targeting MMP8. Also known as MMP8, ID (Matrix Metalloproteinase 8) (MaxLight 490). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-MMP8 antibody	1. Van den Steen, P.E., et al., Biochem. Biophys. Res. Commun. 310(3):889-896 (2003). 2. Giambernardi, T.A., et al., Matrix Biol. 20(8):577-587 (2001). 3. Nagase, H., et al., J. Biol. Chem. 274(31):21491-21494 (1999). 4. Massova, I., et al., FASEB J. 12(12):1075-1095 (1998). 5. Pendas, A.M., et al., Genomics 37(2):266-268 (1996).
Other Notes	Small volumes of anti-MMP8 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.



Western Blot (WB) of anti-MMP8 antibody
Western blot analysis in mouse liver tissue lysate (35ug/lane) usingMBS625586. MMP8 (arrow) was detected using the purified Pab



Immunohistochemistry (IHC) of anti-MMP8 antibody
Immunohistochemistry analysis in formalin-fixed and paraffin-embedded human cancer tissue reacted withMBS625586, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of MBS625586 for immunohistochemistry. BC = breast carcinoma; HC = hepatocarcinoma.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MMP8. It may not necessarily be applicable to this product.

NCBI GI #	4505221
NCBI GeneID	4317
NCBI Accession #	NP_002415
UniProt Primary Accession #	P22894
UniProt Secondary Accession #	Q45F99
UniProt Related Accession #	P22894
GenBank Nucleotide #	NM_002424.2
NCBI Official Full Name	neutrophil collagenase isoform 1 preproprotein
NCBI Official Synonym Full Names	matrix metallopeptidase 8
NCBI Official Symbol	MMP8
NCBI Official Synonym Symbols	HNC; CLG1; MMP-8; PMNL-CL
UniProt Protein Name	Neutrophil collagenase
UniProt Synonym Protein Names	Matrix metalloproteinase-8; MMP-8; PMNL collagenase
Protein Family	Neutrophil collagenase
UniProt Gene Name	MMP8
UniProt Synonym Gene Names	CLG1; MMP-8; PMNL-CL
UniProt Entry Name	MMP8_HUMAN
NCBI Protein Information	neutrophil collagenase
NCBI Summary for MMP8	This gene encodes a member of the matrix metalloproteinase (MMP) family of proteins. These proteins are involved in the breakdown of extracellular matrix in embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Proteolysis at different sites on this protein results in multiple active forms of the enzyme with distinct N-termini. This protein functions in the degradation of type I, II and III collagens. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015]

UniProt Comments for MMP8	MMP8: Can degrade fibrillar type I, II, and III collagens. Belongs to the peptidase M10A family. Protein type: Secreted; EC 3.4.24.34; Protease; Secreted, signal peptide Chromosomal Location of Human Ortholog: 11q22.3 Cellular Component: proteinaceous extracellular matrix; extracellular space; extracellular region Molecular Function: zinc ion binding; metalloendopeptidase activity; serine-type endopeptidase activity; calcium ion binding Biological Process: collagen catabolic process; extracellular matrix disassembly; extracellular matrix organization and biogenesis; proteolysis
Research Articles on MMP8	**1.** Data show that individuals with MMP-8 -799TT genotype and intermediate HIV disease stage are at higher risk for the advancement of HIV disease. MMP-8 polymorphism indicated a trend of elevated risk for the modulation of HIV-associated neurocognitive disorder (HAND) severity. MMP-8 -799TT genotype may facilitate the risk for the development of HAND with tobacco and alcohol usage.
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