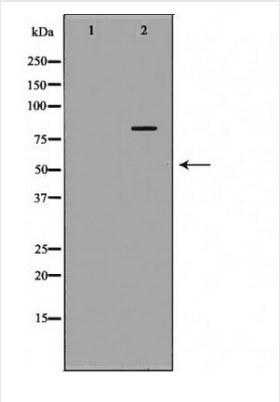
MMP9 Antibody

PRODUCT OVERVIEW

Product Name	MMP9, Antibody
Full Product Name	MMP9 Antibody
Product Gene Name	anti-MMP9 antibody
Product Synonym Names	CLG4B; GELB; MMP-9
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Immunogen affinity purified
Specificity	MMP9 Antibody detects endogenous levels of total MMP9
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	78kDa
OMIM	120361
3D Structure	ModBase 3D Structure for P14780
Immunogen	A synthetic peptide of human MMP9
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MMP9 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-MMP9 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-MMP9 antibody	The matrix metalloproteinases (MMPs) are a family of proteases that target many extracellular proteins including other proteases, growth factors, cell surface receptors and adhesion molecules (1). Among the family members, MMP-2, MMP-3, MMP-7 and MMP-9 have been characterized as important factors for normal tissue remodeling during embryonic development, wound healing, tumor invasion, angiogenesis, carcinogenesis and apoptosis (2-4). MMP activity correlates with cancer development (2). One mechanism of MMP regulation is transcriptional (5). Once synthesized, MMP exists as a latent proenzyme. Maximum MMP activity requires proteolytic cleavage to generate active MMPs by releasing the inhibitory propeptide domain from the full length protein (5).
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.
Searchable Terms for MMP9 purchase	MBS8516289 is an antibody targeting MMP9. Also known as MMP9 Antibody. Reactive in Human, Mouse, Rat.



Western Blot (WB) of anti-MMP9 antibody
Western blot analysis of extracts of mouse spinal cord cell lines, using MMP9 antibody.

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_004985.2
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
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; GELB
Protein Family	Matrix metalloproteinase
UniProt Gene Name	MMP9
UniProt Synonym Gene Names	CLG4B; MMP-9; GELB
NCBI Protein Information	matrix metalloproteinase-9
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	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.

Research Articles on MMP9	**1.** We found that overexpression of AEG-1 in PTC was positively correlated with lymph node metastasis and MMP2/9 expression. Knockdown of AEG-1 reduced the capacity of migration and invasion through downregulation of MMP2/9 in thyroid cancer cells. Furthermore, we firstly found that AEG-1 interacted with MMP9 in thyroid cancer cells.
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