



MMP9 (Cleaved-Phe107) mouse mAb

Catalog No	BYmab-02316
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	MMP9 CLG4B
Protein Name	MMP9 (Cleaved-Phe107)
Immunogen	Synthesized peptide derived from human MMP9 (Cleaved-Phe107)
Specificity	This antibody detects endogenous levels of Human MMP9 (Cleaved-Phe107, protein was cleaved amino acid sequence between 106-107)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Matrix metalloproteinase-9 (MMP-9;EC 3.4.24.35;92 kDa gelatinase;92 kDa type IV collagenase;Gelatinase B;GELB) [Cleaved into: 67 kDa matrix metalloproteinase-9; 82 kDa matrix metalloproteinase-9]
Observed Band	66 78kD
Cell Pathway	Secreted, extracellular space, extracellular matrix .
Tissue Specificity	Detected in neutrophils (at protein level) (PubMed:7683678). Produced by normal alveolar macrophages and granulocytes.
Function	skeletal system development, immune system development, leukocyte differentiation, myeloid leukocyte differentiation, proteolysis, regulation of cell death, positive regulation of cell death, hemopoiesis, myeloid cell differentiation, extracellular matrix organization, macrophage differentiation, regulation of cell migration, positive regulation of cell migration, collagen catabolic process, collagen metabolic process, regulation of locomotion, positive regulation of locomotion, regulation of apoptosis, extracellular structure organization, positive regulation of apoptosis,regulation of programmed cell death, positive regulation of

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programmed cell death, multicellular organismal metabolic process, multicellular organismal catabolic process, multicellular organismal macromolecule metabolic process, hemopoietic or lymphoid organ development, regulation of cell motion, positive regulation of

Background

catalytic activity: Cleavage of gelatin types I and V and collagen types IV and V., cofactor: Binds 2 zinc ions per subunit., cofactor: Binds 3 calcium ions per subunit., disease: Defects in MMP9 may be a cause of susceptibility to lumbar disk herniation (LDH) [MIM:603932]. LDH is the predominant cause of low-back pain and unilateral leg pain., domain: The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus inhibiting the enzyme. The dissociation of the cysteine from the zinc ion upon the activation-peptide release activates the enzyme., enzyme regulation: Inhibited by histatin-3 1/24 (histatin-5)., function: 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-I-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., induction: Activated by 4-aminophenylmercuric acetate and phorbol ester., miscellaneous: In the arthritis patient this enzyme might contribute to the pathogenesis of joint destruction and might constitute a useful marker of disease status., PTM: N- and O-glycosylated., PTM: Processing of the precursor yields different active forms of 64, 67 and 82 kDa. Sequentially processing by MMP3 yields the 82 kDa matrix metalloproteinase-9., similarity: Belongs to the peptidase M10A family., similarity: Contains 3 fibronectin type-II domains., similarity: Contains 4 hemopexin-like domains., subunit: Exists as monomer, disulfide-linked homodimer, and as a heterodimer with a 25 kDa protein. Macrophages and transformed cell lines produce only the monomeric form., tissue specificity: Produced by normal alveolar macrophages and granulocytes.,

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images

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