

MMP9 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP6214a**Specification**

MMP9 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [P14780](#)**MMP9 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 4318**Other Names**

Matrix metalloproteinase-9, MMP-9, 92 kDa gelatinase, 92 kDa type IV collagenase, Gelatinase B, GELB, 67 kDa matrix metalloproteinase-9, 82 kDa matrix metalloproteinase-9, MMP9, CLG4B

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6214a](/product/products/AP6214a) was selected from the C-term region of human MMP9. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MMP9 Antibody (C-term) Blocking Peptide - Protein Information**Name** MMP9**Synonyms** CLG4B**Function**

Matrix metalloproteinase that plays an essential role in local proteolysis of the extracellular matrix and in leukocyte migration (PubMed: [2551898](http://www.uniprot.org/citations/2551898), PubMed: [1480034](http://www.uniprot.org/citations/1480034), PubMed: [12879005](http://www.uniprot.org/citations/12879005)). Could play a role in bone osteoclastic resorption (By similarity). Cleaves KiSS1 at a Gly-I-Leu bond (PubMed: [12879005](http://www.uniprot.org/citations/12879005)). Cleaves NINJ1 to generate the Secreted ninjurin-1 form (PubMed: [32883094](http://www.uniprot.org/citations/32883094)). Cleaves type IV and type V collagen into large C-terminal three quarter fragments and shorter N-

terminal one quarter fragments (PubMed:1480034). Degrades fibronectin but not laminin or Pz-peptide.

Cellular Location

Secreted, extracellular space, extracellular matrix

Tissue Location

Detected in neutrophils (at protein level) (PubMed:7683678). Produced by normal alveolar macrophages and granulocytes.

MMP9 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

MMP9 Antibody (C-term) Blocking Peptide - Images**MMP9 Antibody (C-term) Blocking Peptide - Background**

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 MMPs are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. MMP9 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.

MMP9 Antibody (C-term) Blocking Peptide - References

Tutton, M.G., et al., Int. J. Cancer 107(4):541-550 (2003).Behrens, P., et al., Int. J. Cancer 107(2):183-188 (2003).Van den Steen, P.E., et al., Biochem. Biophys. Res. Commun. 310(3):889-896 (2003).Zhao, Z., et al., J. Infect. Dis. 188(8):1098-1104 (2003).Matsuyama, A., et al., Circulation 108(12):1469-1473 (2003).