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MMP-9 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10387

Specification

MMP-9 Antibody - Product Information

Application	**WB**
Primary Accession	P14780
Other Accession	AAM97934
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**78458**

MMP-9 Antibody - Additional Information

Gene ID 4318

Application & Usage	**Western blotting (0.5-4 µg/ml). However, the optimal concentrations should be determined individually. The antibody recognizes the full length (proenzyme, 92 kDa) and cleaved (active enzyme, 84 kDa) MMP-9 in samples from human, mouse, and rat origins.**

Other Names
GELB , EC 3.4.24.35 , CLG4B , Matrix metalloproteinase

Target/Specificity
MMP-9

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
100 µg (0.5 mg/ml) peptide affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
MMP-9 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

MMP-9 Antibody - 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:12879005, PubMed:1480034, PubMed:2551898). Could play a role in bone osteoclastic resorption (By similarity). Cleaves KiSS1 at a Gly-|-Leu bond (PubMed:12879005). Cleaves NINJ1 to generate the Secreted ninjurin-1 form (PubMed: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.

MMP-9 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MMP-9 Antibody - Images

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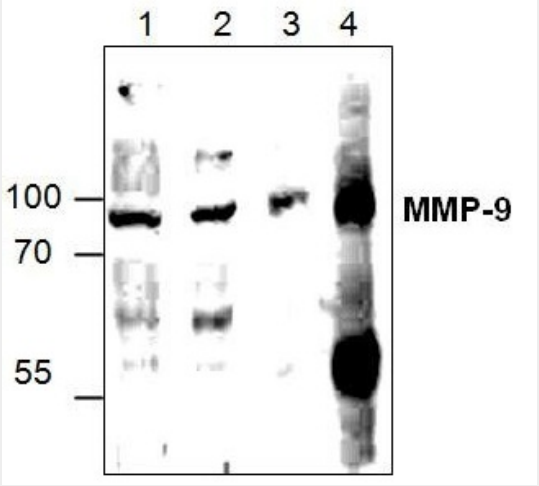

Western blot analysis of MMP-9 expression in Jurkat cell lysate (Lane 1, 2), Mouse 3T3 cell lysate (Lane 3) and Rat kidney tissue lysate (Lane 4).

MMP-9 Antibody - Background

The matrix metalloproteinases (MMP) are a family of peptidase enzymes responsible for the degradation of extracellular matrix components, including collagen, gelatin, fibronectin, laminin and proteoglycan. Transcription of MMP genes is differentially activated by phorbol ester, lipopolysaccharide (LPS) or staphylococcal enterotoxin B (SEB). MMP catalysis requires both calcium and zinc. MMP-9 (also designated 92-kDa type IV collagenase or gelatinase B) has been shown to degrade bone collagens in concert with MMP-1 (also designated interstitial collagenase, fibroblast collagenase or collagenase-1), and cysteine proteases and may play a role in bone osteoclastic resorption.