Product name: Anti-MMP9 antibody

Description: Rabbit polyclonal to MMP9

Host species: Rabbit

Tested applications: Suitable for: WB, IHC-P

Species reactivity: Reacts with: Human

Predicted to work with: Guinea pig

Does not react with: Mouse, Rat, Cow

Immunogen: Synthetic peptide within Human MMP9 aa 600-700 (C terminal). The exact sequence is proprietary.

Database link: P14780

Positive control: Human placenta or Breast carcinoma.

General notes: This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.

Form: Liquid

Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

Storage buffer: pH: 7.60
Preservative: 0.1% Sodium azide
Constituents: PBS, 1% BSA

Purity: Immunogen affinity purified

Clonality: Polyclonal

Isotype: IgG

Applications:

Our Abpromise guarantee covers the use of ab74277 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>WB</td>
<td></td>
<td>Use at an assay dependent concentration. Predicted molecular weight: 78 kDa.</td>
</tr>
<tr>
<td>IHC-P</td>
<td>1/100</td>
<td>Perform heat mediated antigen retrieval before commencing with IHC staining protocol.</td>
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</table>

**Target**

**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-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.

**Tissue specificity**
Produced by normal alveolar macrophages and granulocytes.

**Involvement in disease**
Intervertebral disc disease  
Metaphyseal anadysplasia 2

**Sequence similarities**
Belongs to the peptidase M10A family.  
Contains 3 fibronectin type-II domains.  
Contains 4 hemopexin repeats.

**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.

**Post-translational modifications**
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.  
N- and O-glycosylated.

**Cellular localization**
Secreted, extracellular space, extracellular matrix.

**Images**

![Image](image_url)

ab74277, at 1/100 dilution, staining MMP9 in formalin-fixed, paraffin-embedded human placenta tissue by immunohistochemistry.

**Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MMP9 antibody (ab74277)**

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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