


## Product datasheet

# Anti-MMP9 antibody ab74277

1 Image

### Overview

<b>Product name</b>	Anti-MMP9 antibody
<b>Description</b>	Rabbit polyclonal to MMP9
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Guinea pig  <b>Does not react with:</b> Mouse, Rat, Cow
<b>Immunogen</b>	A synthetic peptide derived from near the C-terminal of human MMP9.
<b>Positive control</b>	Human placenta or Breast carcinoma.

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.1% Sodium Azide Constituents: 1% BSA, 10mM PBS, pH 7.4
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

Our [Abpromise guarantee](#) covers the use of **ab74277** in the following tested applications.

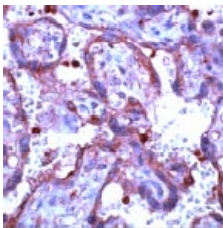
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 78 kDa.
IHC-P		1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

### Target

<b>Function</b>	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.
<b>Tissue specificity</b>	Produced by normal alveolar macrophages and granulocytes.
<b>Involvement in disease</b>	Intervertebral disc disease Metaphyseal anadysplasia 2
<b>Sequence similarities</b>	Belongs to the peptidase M10A family. Contains 3 fibronectin type-II domains. Contains 4 hemopexin repeats.
<b>Domain</b>	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.
<b>Post-translational modifications</b>	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.
<b>Cellular localization</b>	Secreted, extracellular space, extracellular matrix.

## Images



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

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

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