

**MMP-3 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV11068****Specification**

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**MMP-3 Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P08254</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>53977</b>

**MMP-3 Antibody - Additional Information****Gene ID** 4314

Positive Control Application & Usage	<b>Recombinant human MMP-3 Western blotting (0.5-4 µg/ml). However, the optimal conditions should be determined individually.</b>
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**Other Names**

Stromelysin-1, SL-1, Matrix metalloproteinase-3, MMP-3

**Target/Specificity**

MMP-3

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.5 mg/ml) affinity purified rabbit anti-human MMP-3 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 5mM EDTA and 0.01% thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

MMP-3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## MMP-3 Antibody - Protein Information

**Name** MMP3

**Synonyms** STMY1

### Function

Metalloproteinase with a rather broad substrate specificity that can degrade fibronectin, laminin, gelatins of type I, III, IV, and V; collagens III, IV, X, and IX, and cartilage proteoglycans. Activates different molecules including growth factors, plasminogen or other matrix metalloproteinases such as MMP9 (PubMed:<a href="http://www.uniprot.org/citations/11029580" target="\_blank">11029580</a>, PubMed:<a href="http://www.uniprot.org/citations/1371271" target="\_blank">1371271</a>). Once released into the extracellular matrix (ECM), the inactive pro-enzyme is activated by the plasmin cascade signaling pathway (PubMed:<a href="http://www.uniprot.org/citations/2383557" target="\_blank">2383557</a>). Acts also intracellularly (PubMed:<a href="http://www.uniprot.org/citations/22265821" target="\_blank">22265821</a>). For example, in dopaminergic neurons, gets activated by the serine protease HTRA2 upon stress and plays a pivotal role in DA neuronal degeneration by mediating microglial activation and alpha- synuclein/SNCA cleavage (PubMed:<a href="http://www.uniprot.org/citations/21330369" target="\_blank">21330369</a>). In addition, plays a role in immune response and possesses antiviral activity against various viruses such as vesicular stomatitis virus, influenza A virus (H1N1) and human herpes virus 1 (PubMed:<a href="http://www.uniprot.org/citations/35940311" target="\_blank">35940311</a>). Mechanistically, translocates from the cytoplasm into the cell nucleus upon virus infection to influence NF-kappa-B activities (PubMed:<a href="http://www.uniprot.org/citations/35940311" target="\_blank">35940311</a>).

### Cellular Location

Secreted, extracellular space, extracellular matrix. Nucleus. Cytoplasm

## MMP-3 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 Cytometry](#)
- [Cell Culture](#)

## MMP-3 Antibody - Images

## MMP-3 Antibody - Background

Proteins of the matrix metalloprotease (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 disease processes such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases.