

**MMP-3 Polyclonal Antibody**  
Catalog # AP72648**Specification****MMP-3 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P08254</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

**MMP-3 Polyclonal Antibody - Additional Information**

Gene ID 4314

**Other Names**

MMP3; STMY1; Stromelysin-1; SL-1; Matrix metalloproteinase-3; MMP-3; Transin-1

**Dilution**

WB~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**MMP-3 Polyclonal 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: <http://www.uniprot.org/citations/11029580> target="\_blank">11029580</a>, PubMed: <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: <http://www.uniprot.org/citations/2383557> target="\_blank">2383557</a>). Acts also intracellularly (PubMed: <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: <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

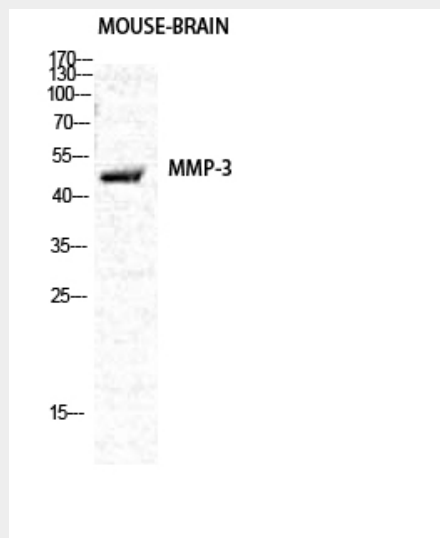
Secreted, extracellular space, extracellular matrix. Nucleus. Cytoplasm

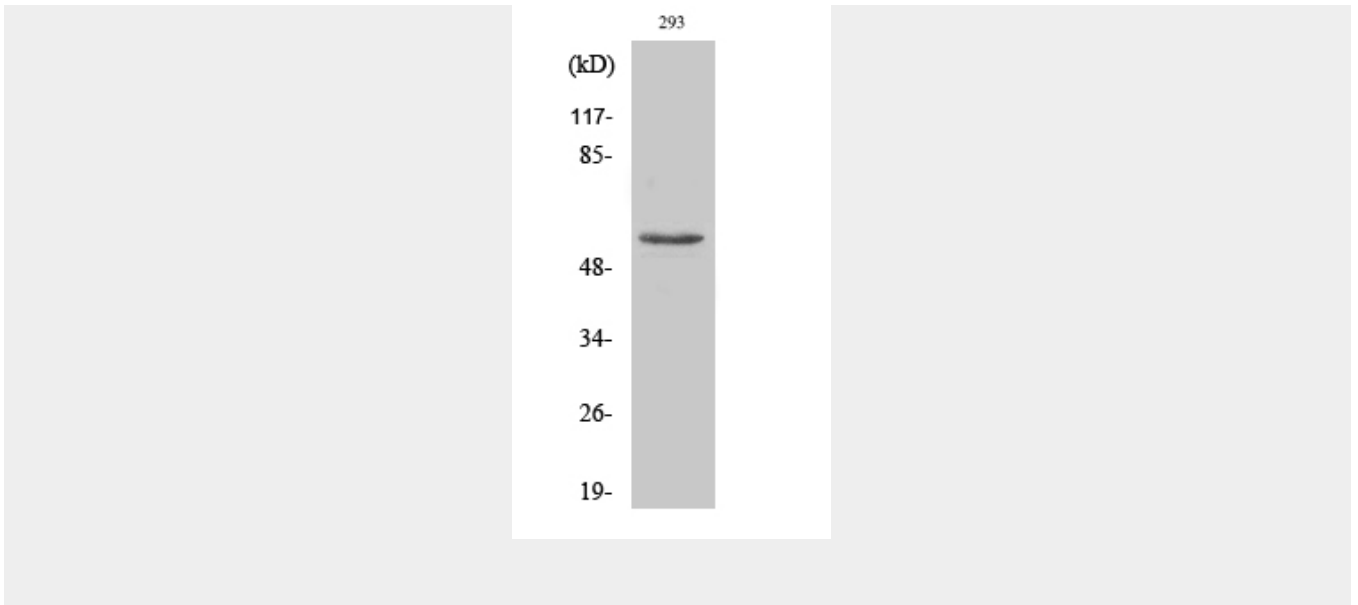
#### MMP-3 Polyclonal Antibody - Protocols

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 Polyclonal Antibody - Images





### **MMP-3 Polyclonal Antibody - Background**

Can degrade fibronectin, laminin, gelatins of type I, III, IV, and V; collagens III, IV, X, and IX, and cartilage proteoglycans. Activates procollagenase.