

# MMP-3 Polyclonal Antibody

Catalog # AP72648

## Product Information

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|--------------------------|------------------------|
| <b>Application</b>       | WB, IHC-P, IF, ICC, E  |
| <b>Primary Accession</b> | <a href="#">P08254</a> |
| <b>Reactivity</b>        | Human, Mouse, Rat      |
| <b>Host</b>              | Rabbit                 |
| <b>Clonality</b>         | Polyclonal             |
| <b>Calculated MW</b>     | 53977                  |

## Additional Information

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|---------------------------|--|
| <b>Gene ID</b>            | 4314   |
| <b>Other Names</b>        | MMP3; STMY1; Stromelysin-1; SL-1; Matrix metalloproteinase-3; MMP-3; Transin-1   |
| <b>Dilution</b>           | 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. IHC-P~~N/A IF~~1:50~200 ICC~~N/A E~~N/A |
| <b>Format</b>             | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.  |
| <b>Storage Conditions</b> | -20°C  |

## Protein Information

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|                 |   |
|-----------------|---|
| <b>Name</b>     | MMP3  |
| <b>Synonyms</b> | STMY1   |
| <b>Function</b> | 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="#">11029580</a> , PubMed: <a href="#">1371271</a> ). Once released into the extracellular matrix (ECM), the inactive pro-enzyme is activated by the plasmin cascade signaling pathway (PubMed: <a href="#">2383557</a> ). Also acts intracellularly (PubMed: <a href="#">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="#">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="#">35940311</a> ). Mechanistically, translocates from the cytoplasm into |

the cell nucleus upon virus infection to influence NF-kappa-B activities (PubMed:[35940311](#)).

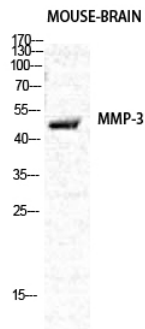
## Cellular Location

Secreted, extracellular space, extracellular matrix. Nucleus. Cytoplasm

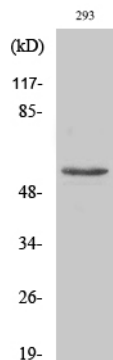
## Background

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

## Images



Western Blot analysis of various cells using MMP-3 Polyclonal Antibody diluted at 1 : 2000



Western Blot analysis of 293 cells using MMP-3 Polyclonal Antibody diluted at 1 : 2000

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.