

MMP3 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51354

Specification

MMP3 Antibody - Product Information

Application	WB, ICC, IHC-P, E
Primary Accession	P08254
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55 KDa

MMP3 Antibody - Additional Information

Gene ID 4314

Other Names

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

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

MMP3 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: [11029580](http://www.uniprot.org/citations/11029580)), PubMed: [1371271](http://www.uniprot.org/citations/1371271)). Once released into the extracellular matrix (ECM), the inactive pro-enzyme is activated by the plasmin cascade signaling pathway (PubMed: [2383557](http://www.uniprot.org/citations/2383557)). Acts also intracellularly (PubMed: [22265821](http://www.uniprot.org/citations/22265821)). 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: [21330369](http://www.uniprot.org/citations/21330369)). 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:

href="http://www.uniprot.org/citations/35940311" target="_blank">35940311). 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

MMP3 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](#)

MMP3 Antibody - Images

MMP3 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.

MMP3 Antibody - References

Saus J., et al. J. Biol. Chem. 263:6742-6745(1988).
Whitham S.E., et al. Biochem. J. 240:913-916(1986).
Wilhelm S.M., et al. Proc. Natl. Acad. Sci. U.S.A. 84:6725-6729(1987).
Lin D., et al. Submitted (DEC-1996) to the EMBL/GenBank/DDBJ databases.
Ota T., et al. Nat. Genet. 36:40-45(2004).

MMP3 Antibody - Citations

- [Metalloproteinases 1 and 3 as Potential Biomarkers in Breast Cancer Development](#)
- [Nkx2-5 Is Expressed in Atherosclerotic Plaques and Attenuates Development of Atherosclerosis in Apolipoprotein E-Deficient Mice.](#)