

MMP3 Antibody
Rabbit Polyclonal Antibody
Catalog # ALS13311**Specification**

MMP3 Antibody - Product Information

Application	WB
Primary Accession	P08254
Reactivity	Human, Mouse, Rat, Rabbit, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	54kDa KDa

MMP3 Antibody - Additional Information**Gene ID** 4314**Other Names**

Stromelysin-1, SL-1, 3.4.24.17, Matrix metalloproteinase-3, MMP-3, Transin-1, MMP3, STMY1

Target/Specificity

The antibody recognizes the MMP-3 of human, mouse, rat, horse, and rabbit origins. Reactivity to other species has not been tested. The antibody detects the 55 kD full length and the 21 kD cleavage fragment of MMP-3.

Reconstitution & Storage

+4°C or -20°C, Avoid repeated freezing and thawing.

Precautions

MMP3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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). 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:35940311). Mechanistically, translocates from the cytoplasm into the cell nucleus upon virus infection to influence NF-kappa-B activities (PubMed:35940311).

Cellular Location

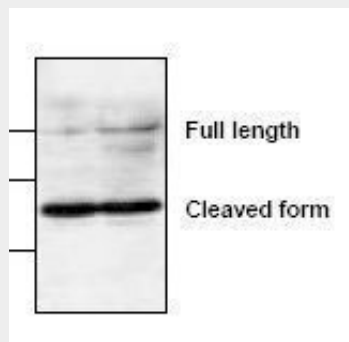
Secreted, extracellular space, extracellular matrix. Nucleus. Cytoplasm

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



Western blot of MMP-3 antibody ALS13311.

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).