10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MMP3 Antibody
Rabbit Polyclonal Antibody
Catalog # ALS13234

Specification

MMP3 Antibody - Product Information

Application	**IF**
Primary Accession	P08254
Reactivity	**Human**
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
Human MMP3.

Reconstitution & Storage
Aliquot and store at -20°C. Minimize 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, PubMed:1371271). Once released into the extracellular matrix (ECM), the inactive pro-enzyme is activated by the plasmin cascade signaling pathway (PubMed:2383557). Acts also intracellularly (PubMed: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:<a

href="http://www.uniprot.org/citations/21330369" target="_blank">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

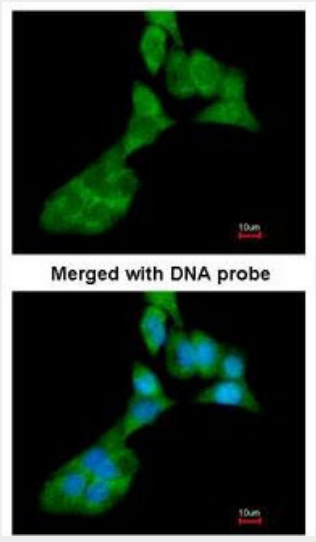
Volume
50 µl

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 Cytomety
- Cell Culture

MMP3 Antibody - Images



Immunofluorescence of paraformaldehyde-fixed A549, using MMP3 antibody at 1:200 dilution.

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).