

## Anti-MMP3 Rabbit Monoclonal Antibody Catalog # ABO13323

### Specification

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#### Anti-MMP3 Rabbit Monoclonal Antibody - Product Information

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC, IF, ICC       |
| Primary Accession | <a href="#">P08254</a> |
| Host              | Rabbit                 |
| Isotype           | Rabbit IgG             |
| Reactivity        | Rat, Human, Mouse      |
| Clonality         | Monoclonal             |
| Format            | Liquid                 |

#### Description

Anti-MMP3 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.

#### Anti-MMP3 Rabbit Monoclonal 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

#### Calculated MW

53977 MW KDa

#### Application Details

WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200

#### Subcellular Localization

Secreted, extracellular space, extracellular matrix.

#### Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

#### Immunogen

A synthesized peptide derived from human MMP3

#### Purification

Affinity-chromatography

Storage

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

#### Anti-MMP3 Rabbit Monoclonal 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:<a href="http://www.uniprot.org/citations/11029580" target="\_blank">11029580</a>, PubMed:<a href="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:<a href="http://www.uniprot.org/citations/2383557" target="\_blank">2383557</a>). Acts also intracellularly (PubMed:<a href="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:<a href="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**

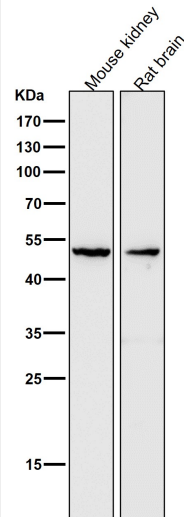
Secreted, extracellular space, extracellular matrix. Nucleus. Cytoplasm

**Anti-MMP3 Rabbit Monoclonal Antibody - Protocols**

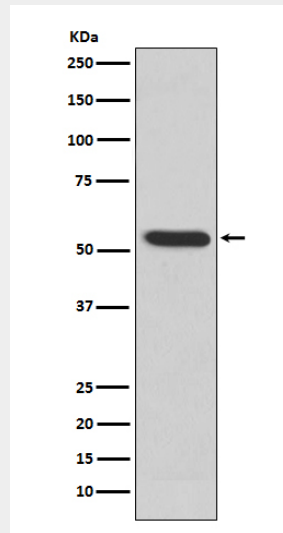
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

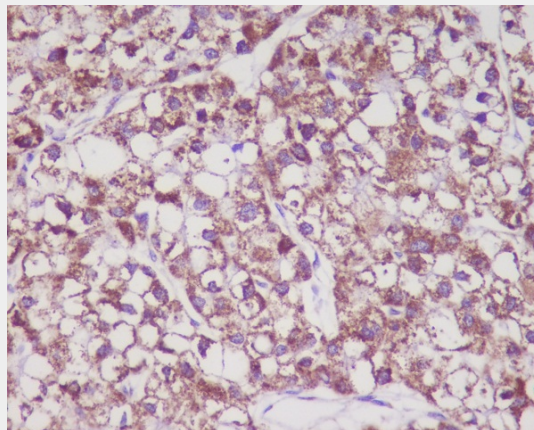
**Anti-MMP3 Rabbit Monoclonal Antibody - Images**



All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.

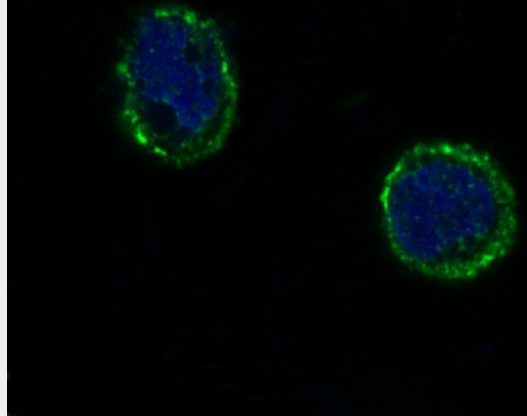


Western blot analysis of MMP3 expression in MMP3 recombinant protein.



Immunohistochemical analysis of paraffin-embedded human liver cancer, using MMP3 Antibody.

MMP3 Antibody



Immunofluorescent analysis of HeLa cells, using MMP3 Antibody.