

Cleaved-MMP-3 (F100) Polyclonal Antibody

Catalog # AP63141

Product Information

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|-------------------|------------------------|
| Application | WB |
| Primary Accession | P08254 |
| Reactivity | Human |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 53977 |

Additional Information

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|--------------------|-----------------------------------------------------------------------------------------|
| Gene ID | 4314 |
| Other Names | MMP3; STMY1; Stromelysin-1; SL-1; Matrix metalloproteinase-3; MMP-3; Transin-1 |
| Dilution | WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications. |
| Format | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide. |
| Storage Conditions | -20°C |

Protein Information

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| Name | MMP3 |
| Synonyms | STMY1 |
| Function | <p>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). Also acts 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: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</p> |

(PubMed:[35940311](#)).

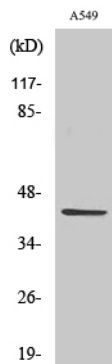
Cellular Location

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
Cleaved-MMP-3 (F100) Polyclonal Antibody

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