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Anti-MMP3 Antibody

Catalog # AP51355

Product Information

Application	WB, IP
Primary Accession	P08254
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53977

Additional Information

Gene ID	4314
Other Names	STMY1; Stromelysin-1; SL-1; Matrix metalloproteinase-3; MMP-3; Transin-1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MMP3. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IP~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

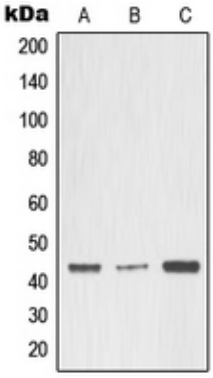
Name	MMP3
Synonyms	STMY1
Function	Metalloproteinase with a rather broad substrate specificity that can degrade fibronectin, laminin, gelatins of type I, III, IV, and V; collagens III, IV, X, and IX, and cartilage proteoglycans. Activates different molecules including growth factors, plasminogen or other 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). 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 (PubMed:35940311).
Cellular Location	Secreted, extracellular space, extracellular matrix. Nucleus. Cytoplasm

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).

Images



Western blot analysis of MMP3 expression in A549 (A), MCF7 (B), rat heart (C) whole cell lysates. (Predicted band size: 53 kD; Observed band size: 43 kD)

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