

Product datasheet

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ARG66964 anti-MMP1 antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes MMP1

Tested Reactivity Hu, Ms
Predict Reactivity Rat

Tested Application ICC/IF, IHC-P, WB

Host Rabbit
Clonality Polyclonal

Isotype IgG
Target Name MMP1

Species Human

Immunogen Synthetic peptide around the middle region of Human MMP1.

Conjugation Un-conjugated

Alternate Names MMP-1; CLG; Fibroblast collagenase; Matrix metalloproteinase-1; CLGN; EC 3.4.24.7; Interstitial

collagenase

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:100 - 1:300
	IHC-P	1:100 - 1:200
	WB	1:500 - 1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 50-54 kDa	

Properties

Form Liquid

Purification Affinity purified.

Buffer 100 mM Tris Glycine (pH 7.0), 0.025% ProClin 300, 1%BSA and 20% Glycerol.

Preservative 0.025% ProClin 300

Stabilizer 1%BSA and 20% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

Gene Symbol MMP1

Gene Full Name matrix metallopeptidase 1

Background Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular

matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. This gene encodes a secreted enzyme which breaks down the interstitial collagens, types I, II, and III. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. Alternative splicing results in

multiple transcript variants.[provided by RefSeq, Mar 2009]

Function Cleaves collagens of types I, II, and III at one site in the helical domain. Also cleaves collagens of types

VII and X. In case of HIV infection, interacts and cleaves the secreted viral Tat protein, leading to a

decrease in neuronal Tat's mediated neurotoxicity. [UniProt]

Calculated Mw 54 kDa

PTM Undergoes autolytic cleavage to two major forms (22 kDa and 27 kDa). A minor form (25 kDa) is the

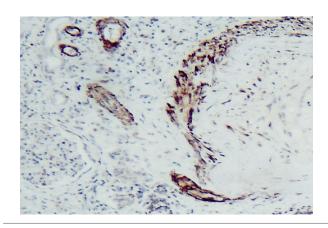
glycosylated form of the 22 kDa form. The 27 kDa form has no activity while the 22/25 kDa form can act

as activator for collagenase.

Tyrosine phosphorylated in platelets by PKDCC/VLK. [UniProt]

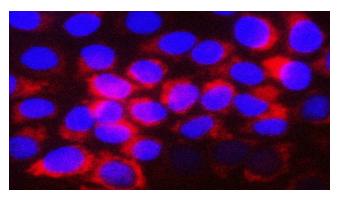
Cellular Localization Secreted, extracellular space, extracellular matrix. [UniProt]

Images



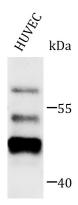
ARG66964 anti-MMP1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded mouse testis tissue section stained with ARG66964 anti-MMP1 antibody at 1:100 dilution.



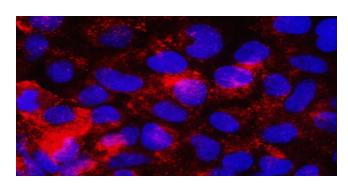
ARG66964 anti-MMP1 antibody ICC/IF image

Immunofluorescence: 4% paraformaldehyde-fixed A549 cells were permeabilized with 0.1% NP-40 for 5-10 minutes and blocked with 5% BSA for 30 minutes at room temperature. Cells were stained with ARG66964 anti-MMP1 antibody at 1:300 dilution.



ARG66964 anti-MMP1 antibody WB image

Western blot: HUVES cells stained with ARG66975 ARG66964 anti-MMP1 antibody at 1:500 dilution on 7.5% SDS-PAGE.



ARG66964 anti-MMP1 antibody ICC/IF image

Immunofluorescence: 4% paraformaldehyde-fixed Huh-7 cells were permeabilized with 0.1% NP-40 for 5-10 minutes and blocked with 5% BSA for 30 minutes at room temperature. Cells were stained with ARG66964 anti-MMP1 antibody at 1:300 dilution.