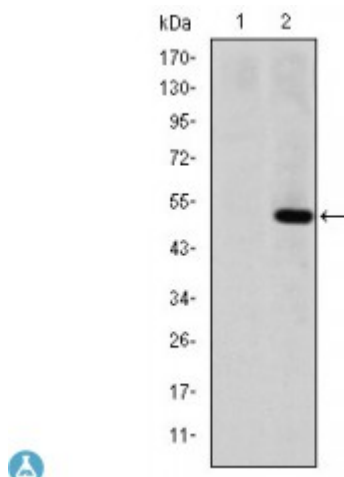


Anti-MMP-1 antibody



Description	Mouse monoclonal to MMP-1.
Model	STJ98247
Host	Mouse
Reactivity	Human
Applications	ELISA, FC, IF, IHC, WB
Immunogen	Purified recombinant fragment of human MMP-1 expressed in E. Coli.
Gene ID	4312
Gene Symbol	MMP1
Dilution range	WB 1:500-1:2000IHC 1:200-1:1000IF 1:200-1:1000FC 1:200-1:400ELISA 1:10000
Specificity	MMP-1 Monoclonal Antibody detects endogenous levels of MMP-1 protein.
Purification	Affinity purification
Clone ID	6A5
Note	For Research Use Only (RUO).
Protein Name	Interstitial collagenase Fibroblast collagenase Matrix metalloproteinase-1 MMP-1 22 kDa interstitial collagenase 27 kDa interstitial collagenase
Clonality	Monoclonal
Conjugation	Unconjugated
Isotype	IgG1

Formulation	Ascitic fluid containing 0.03% sodium azide.
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:7155OMIM:120353
Alternative Names	Interstitial collagenase Fibroblast collagenase Matrix metalloproteinase-1 MMP-1 22 kDa interstitial collagenase 27 kDa interstitial collagenase
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 .
Sequence and Domain Family	There are two distinct domains in this protein; the catalytic N-terminal, and the C-terminal which is involved in substrate specificity and in binding TIMP (tissue inhibitor of metalloproteinases).; The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus inhibiting the enzyme. The dissociation of the cysteine from the zinc ion upon the activation-peptide release activates the enzyme.
Cellular Localization	Secreted, extracellular space, extracellular matrix
Post-translational Modifications	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.