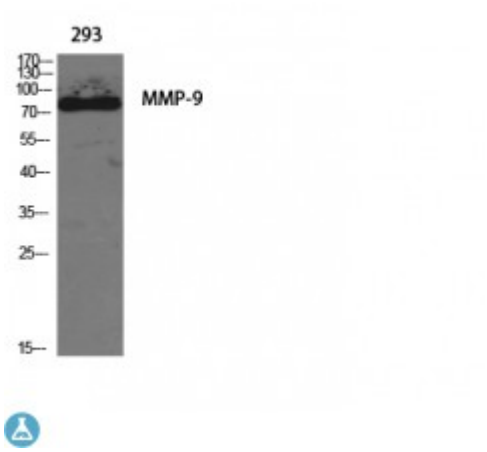
Anti-MMP-9 antibody



Description	Rabbit polyclonal to MMP-9.

Model	STJ93257
Host	Rabbit
Reactivity	Human
Applications	ELISA, IF, IHC, WB
Immunogen	Synthesized peptide derived from human MMP-9
Immunogen Region	620-700 aa, C-terminal
Gene ID	4318
Gene Symbol	MMP9
Dilution range	WB 1:500-1:2000IHC 1:100-1:300IF 1:200-1:1000ELISA 1:20000
Specificity	MMP-9 Polyclonal Antibody detects endogenous levels of MMP-9 protein.
Tissue Specificity	Produced by normal alveolar macrophages and granulocytes.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Matrix metalloproteinase-9 MMP-9 92 kDa gelatinase 92 kDa type IV collagenase Gelatinase B GELB 67 kDa matrix metalloproteinase-9 82 kDa matrix metalloproteinase-9
Molecular Weight	78 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:7176OMIM:120361
Alternative Names	Matrix metalloproteinase-9 MMP-9 92 kDa gelatinase 92 kDa type IV collagenase Gelatinase B GELB 67 kDa matrix metalloproteinase-9 82 kDa matrix metalloproteinase-9
Function	May play an essential role in local proteolysis of the extracellular matrix and in leukocyte migration. Could play a role in bone osteoclastic resorption. Cleaves KiSS1 at a Gly-|-Leu bond. Cleaves type IV and type V collagen into large C-terminal three quarter fragments and shorter N-terminal one quarter fragments. Degrades fibronectin but not laminin or Pz-peptide.
Sequence and Domain Family	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	Processing of the precursor yields different active forms of 64, 67 and 82 kDa. Sequentially processing by MMP3 yields the 82 kDa matrix metalloproteinase-9. N- and O-glycosylated.