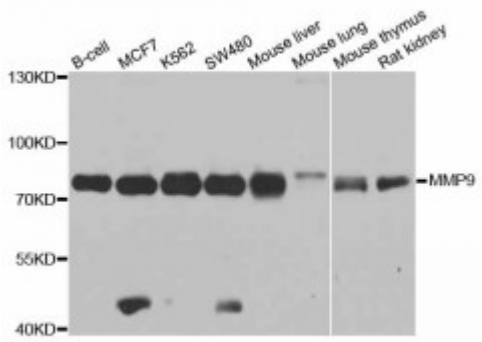
Anti-MMP9 Antibody



Description	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. The enzyme encoded by this gene degrades type IV and V collagens. Studies in rhesus monkeys suggest that the enzyme is involved in IL-8-induced mobilization of hematopoietic progenitor cells from bone marrow, and murine studies suggest a role in tumor-associated tissue remodeling.

Model	STJ113539
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 538-707 of human MMP9 (NP_004985.2).
Gene ID	4318
Gene Symbol	MMP9
Dilution range	WB 1:500 - 1:2000
Tissue Specificity	Produced by normal alveolar macrophages and granulocytes
Purification	Affinity purification
Note	For Research Use Only (RUO).

Protein Name	Matrix metalloproteinase-9 MMP-9
Molecular Weight	78.458 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:7176OMIM:120361Reactome:R-HSA-1433557
Alternative Names	Matrix metalloproteinase-9 MMP-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,
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,