

MMP-9 Rabbit pAb

CatalogNo: YT1892

Orthogonal Validated Protein Overexpression 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 78kD (Observed)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-1:2000**IHC: 1:100-300****ELISA 1:20000****IF 1:100-300****Not yet tested in other applications.**

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality Polyclonal

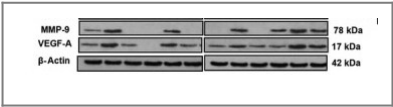
Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human MMP-9. AA range: 651-700**Specificity** MMP-9 Polyclonal Antibody detects endogenous levels of MMP-9 protein.

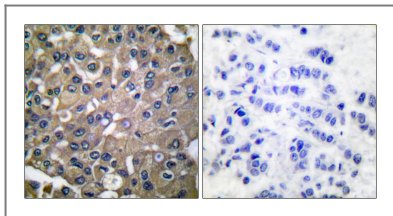
| Target Information

Gene name	MMP9		
Protein Name	Matrix metalloproteinase-9		
	Organism	Gene ID	UniProt ID
	Human	4318 ;	P14780 ;
	Mouse		P41245 ;
Cellular Localization	Secreted, extracellular space, extracellular matrix .		
Tissue specificity	Detected in neutrophils (at protein level) (PubMed:7683678). Produced by normal alveolar macrophages and granulocytes.		
Function	Catalytic activity: Cleavage of gelatin types I and V and collagen types IV and V., cofactor: Binds 2 zinc ions per subunit., cofactor: Binds 3 calcium ions per subunit., Disease: Defects in MMP9 may be a cause of susceptibility to lumbar disk herniation (LDH) [MIM:603932]. LDH is the predominant cause of low-back pain and unilateral leg pain., Domain: 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., enzyme regulation: Inhibited by histatin-3 1/24 (histatin-5)., 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-I-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., induction: Activated by 4-aminophenylmercuric acetate and phorbol ester., miscellaneous: In the arthritis patient this enzyme might contribute to the pathogenesis of joint destruction and might constitute a useful marker of disease status., PTM: N- and O-glycosylated., PTM: 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., similarity: Belongs to the peptidase M10A family., similarity: Contains 3 fibronectin type-II domains., similarity: Contains 4 hemopexin-like domains., subunit: Exists as monomer, disulfide-linked homodimer, and as a heterodimer with a 25 kDa protein. Macrophages and transformed cell lines produce only the monomeric form., tissue specificity: Produced by normal alveolar macrophages and granulocytes.,		

| Validation Data



Zou, Guoying, et al. "Inhibin B suppresses anoikis resistance and migration through the transforming growth factor- β signaling pathway in nasopharyngeal carcinoma." Cancer science 109.11 (2018): 3416.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using MMP-9 Antibody. The picture on the right is blocked with the synthesized peptide.

| Contact information

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MMP-9 Rabbit pAb

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