

Product datasheet for **AM06662SU-N**

MMP9 Mouse Monoclonal Antibody [Clone ID: 5G3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5G3
Applications:	ELISA, FC, IF, IHC, WB
Recommended Dilution:	Western Blot: 1/500 - 1/2000. Immunohistochemistry on paraffin sections: 1/200 - 1/1000. Immunofluorescence: 1/200 - 1/1000. Flow cytometry: 1/200 - 1/400. ELISA: 1/10000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human MMP9 expressed in E. Coli.
Specificity:	This antibody reacts to MMP9.
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% sodium azide.
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	92 kDa
Gene Name:	matrix metalloproteinase 9
Database Link:	Entrez Gene 4318 Human P14780



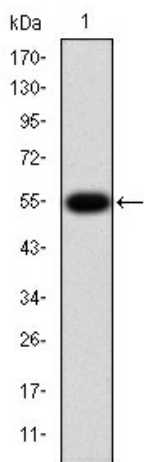
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Background:

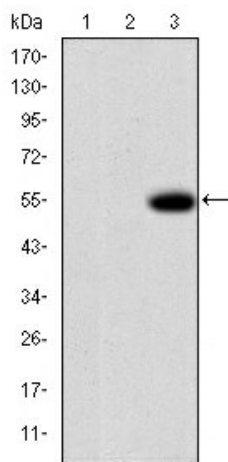
Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. 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.

Synonyms:

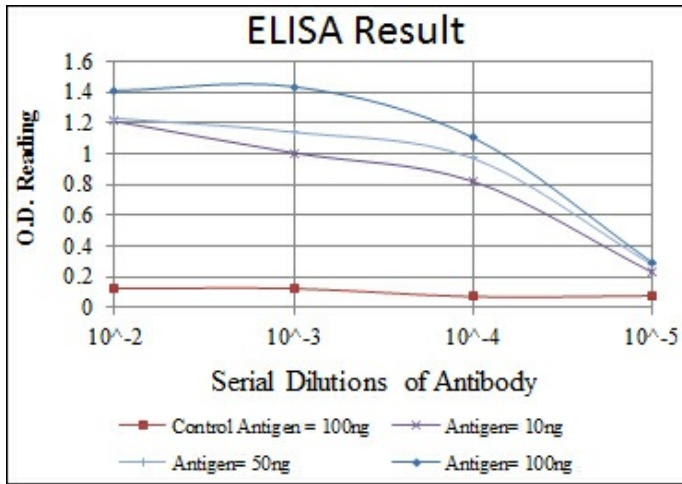
Matrix metalloproteinase-9, MMP9, 92 kDa type IV collagenase, 92 kDa gelatinase, GELB, Gelatinase B, CLG4B

Product images:


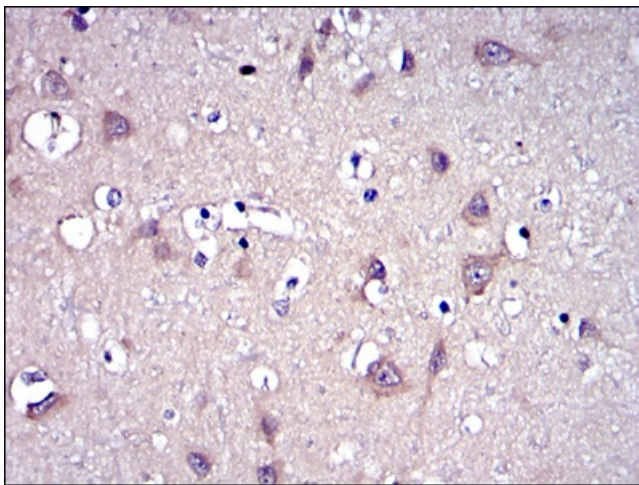
Western blot analysis using MMP9 mAb against human MMP9 (AA: 238-465) recombinant protein. (Expected MW is 50.6 kDa)



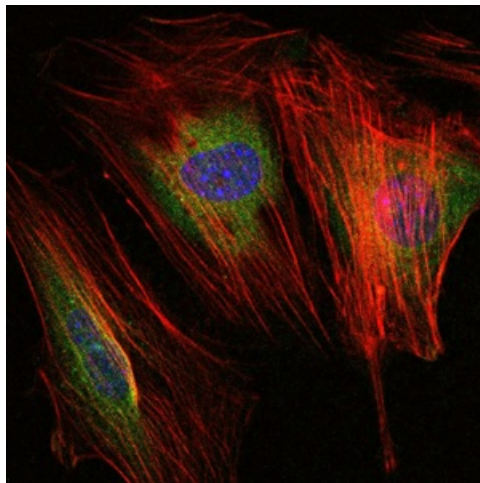
Western blot analysis using MMP9 mAb against HEK293 (1), MMP7-hlgGfC transfected HEK293 (2) cell lysate and MMP9-hlgGfC transfected HEK293 (3) cell lysate.



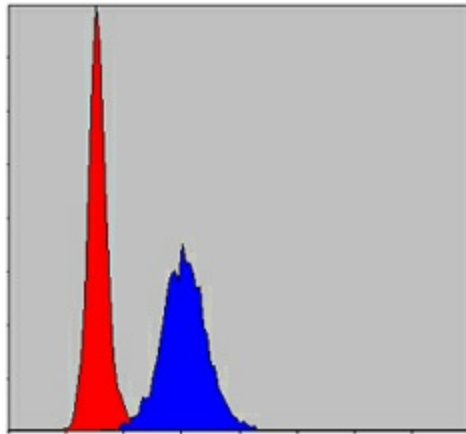
Red: Control Antigen (100ng) Purple: Antigen (10ng) Green: Antigen (50ng) Blue: Antigen (100ng)



Immunohistochemical analysis of paraffin-embedded brain tissues using MMP9 mouse mAb with DAB staining.



Immunofluorescence analysis of NIH/3T3 cells using MMP9 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Flow cytometric analysis of HeLa cells using MMP9 mouse mAb (blue) and negative control (red).