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AM06664SU-N Monoclonal Antibody to MMP-9 - Ascites

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

Quantity: 0.1 ml

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.

Uniprot ID: P14780

NCBI: NP_004985.2

GeneID: 4318

Host / Isotype: Mouse / IgG2a

Clone: 5C3

Immunogen: Purified recombinant fragment of human MMP9 expressed in E. Coli.

Format: **State:** Ascitic fluid containing 0.03% sodium azide.

Applications:
Western Blot: 1/500 - 1/2000.
Flow cytometry: 1/200 - 1/400.
ELISA: 1/10000.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Molecular Weight: 92 kDa

Specificity: This antibody reacts to MMP9.

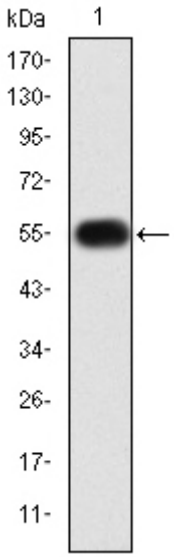
Species Reactivity: **Tested:** Human.

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

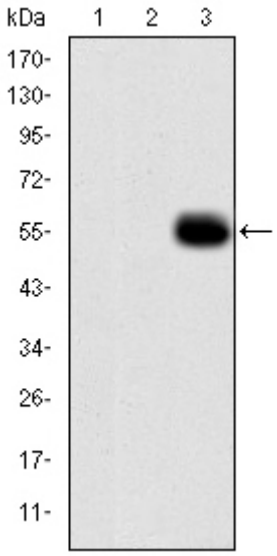
General Readings:
1. IUBMB Life. 2009 Dec;61(12):1143-52.
2. J Biol Regul Homeost Agents. 2009 Oct-Dec;23(4):259-67.

Pictures:

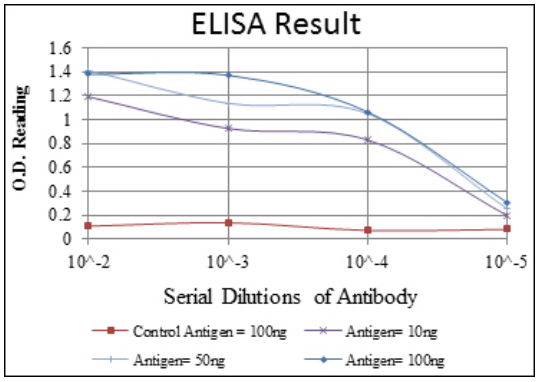
Western blot analysis using MMP9 mAb against human MMP9 (AA: 238-465) recombinant protein. (Expected MW is 50.6 kDa)



Western blot analysis using MMP9 mAb against HEK293 (1), MMP7-hIgGFc transfected HEK293 (2) cell lysate and MMP9 (AA: 238-465)-hIgGFc transfected HEK293 (3) cell lysate.



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



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