

Anti-MMP-9 Antibody [10A1]

EM1801-22



Product Type:	Recombinant Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human
Applications:	ELISA
Clone number:	10A1

Description: Matrix metalloproteinase 9 (MMP-9), also known as 92 kDa type IV collagenase, 92 kDa gelatinase or gelatinase B (GELB), is a matrixin, a class of enzymes that belong to the zinc-metalloproteinases family involved in the degradation of the extracellular matrix. In humans the MMP9 gene encodes for a signal peptide, a propeptide, a catalytic domain with inserted three repeats of fibronectin type II domain followed by a C-terminal hemopexin-like domain. MMP9, along with elastase, appears to be a regulatory factor in neutrophil migration across the basement membrane. MMP9 plays several important functions within neutrophil action, such as degrading extracellular matrix, activation of IL-1 β , and cleavage of several chemokines. In a mouse model, MMP9 deficiency resulted in resistance to endotoxin shock, suggesting that MMP9 is important in sepsis.

Immunogen: Recombinant protein with Human MMP-9 aa 270-400.

Positive control: Recombinant protein with Human MMP-9.

Subcellular location: Secreted.

Database links: SwissProt: P14780 Human

Recommended Dilutions:
ELISA Use at an assay dependent concentration.

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein G affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

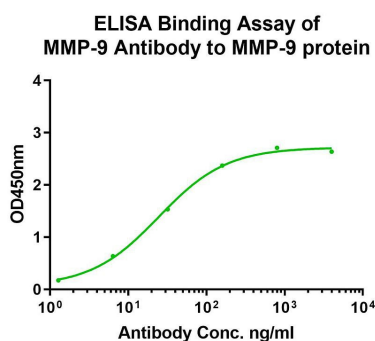


Fig1: Indirect ELISA analysis of MMP-9 was performed by coating wells of a 96-well plate with 50 μ L per well of MMP-9 diluted in carbonate/bicarbonate buffer, at a concentration of 5 μ g/mL overnight at 4 $^{\circ}$ C. Wells of the plate were washed, blocked with 1% BSA blocking buffer for 1 hour at 37 $^{\circ}$ C, and incubated with 50 μ L per well of MMP-9 monoclonal antibody serial diluted starting from a concentration of 4 μ g/mL for 45 minutes at 37 $^{\circ}$ C. The plate was washed and incubated with 50 μ L per well of an HRP-conjugated goat anti-mouse IgG secondary antibody at a dilution of 1/80,000 for 30 minutes at 37 $^{\circ}$ C. Detection was performed using an Ultra TMB Substrate for 10 minutes at 37 $^{\circ}$ C in the dark. The reaction was stopped with sulfuric acid and absorbances were read on a spectrophotometer at 450 nm.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Park JH et al. Promoting Wound Healing Using Low Molecular Weight Fucoidan in a Full-Thickness Dermal Excision Rat Model. *Mar Drugs* 15:(4) pii: E112. (2017).
2. Chen X et al. The role of miR-497-5p in myofibroblast differentiation of LR-MSCs and pulmonary fibrogenesis. *Sci Rep* 7:40958 (2017).

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