

# Anti-MMP-2 Antibody [B11-E6]

## EM1706-99



<b>Product Type:</b>	Mouse monoclonal IgG1, primary antibodies
<b>Species reactivity:</b>	Human, Mouse
<b>Applications:</b>	WB, FC
<b>Molecular Wt:</b>	72 kDa
<b>Clone number:</b>	B11-E6

**Description:** The matrix metalloproteinases (MMP) are a family of peptidase enzymes responsible for the degradation of extracellular matrix components, including collagen, gelatin, Fibronectin, Laminin and proteoglycan. Transcription of MMP genes is differentially activated by phorbol ester, lipopolysaccharide (LPS) or staphylococcal enterotoxin B (SEB). MMP catalysis requires both calcium and zinc. MMP-2 (also designated type IV collagenase) cleaves collagen types IV, V, VII and X and gelatin type I. Activation of MMP-2 secretion requires the Ras signaling pathway.

**Immunogen:** Recombinant protein within human MMP2 aa 9-140.

**Positive control:** Human MMP2 recombinant protein, MMP2-hlgFc transfected HEK293, MCF-7, Raw264.7, HUVEC, T47D, Hela.

**Subcellular location:** Secreted. Membrane. Nucleus

**Database links:** SwissProt: P08253 Human | P33434 Mouse

**Recommended Dilutions:**

<b>WB</b>	1:500-1:2,000
<b>FC</b>	1:100-1:200

**Storage Buffer:** Purified antibody in PBS with 0.05% sodium azide.

**Storage Instruction:** 4°C; -20°C for long term storage.

**Purity:** Protein A affinity purified.

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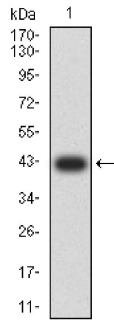
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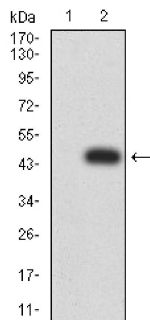
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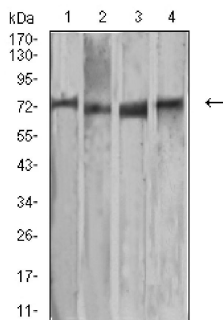
## Images



**Fig1:** Western blot analysis of MMP2 on human MMP2 recombinant protein using anti-MMP2 antibody at 1/1,000 dilution.



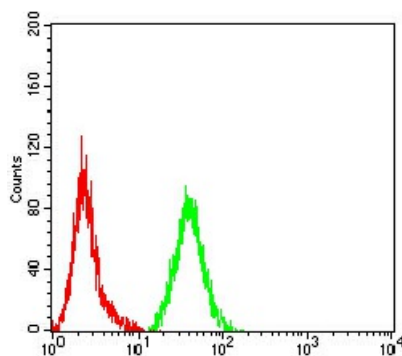
**Fig2:** Western blot analysis of MMP2 on HEK293 (1) and MMP2-hlgFc transfected HEK293 (2) cell lysate using anti-MMP2 antibody at 1/1,000 dilution.



**Fig3:** Western blot analysis of MMP2 on different cell lysate using anti-MMP2 antibody at 1/1,000 dilution.

**Positive control:**

- Lane 1: MCF-7
- Lane 2: Raw264.7
- Lane 3: HUVEC
- Lane 4: T47D



**Fig4:** Flow cytometric analysis of HeLa cells with MMP-2 antibody at 1/100 dilution (green) compared with an unlabelled control (cells without incubation with primary antibody; red).

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

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### Background References

1. Zhong J et al. TGF- 1 induces HMGA1 expression: The role of HMGA1 in thyroid cancer proliferation and invasion. *Int J Oncol* 50:1567-1578 (2017).
2. Xu L et al. Umbilical cord-derived mesenchymal stem cells on scaffolds facilitate collagen degradation via upregulation of MMP-9 in rat uterine scars. *Stem Cell Res Ther* 8:84 (2017).

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