

## 10-7601: Monoclonal Antibody to MMP2 (Clone: ABM5A31)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	ABM5A31
<b>Application :</b>	WB
<b>Reactivity :</b>	Mouse,Human
<b>Gene :</b>	MMP2
<b>Gene ID :</b>	4313
<b>Uniprot ID :</b>	P08253
<b>Format :</b>	Purified
<b>Alternative Name :</b>	72 kDa type IV collagenase, 72 kDa gelatinase, Gelatinase A, Matrix metalloproteinase-2
<b>Isotype :</b>	Mouse IgG1, kappa
<b>Immunogen Information :</b>	A partial length recombinant protein (a.a 303-591) of MMP2 was used as the immunogen for this antibody.

### Description

MMP2 (Matrix metalloproteinase-2) is a member of the MMP family that primarily hydrolyzes type IV collagen and known to play a key role in tumor invasion and metastasis. MMP2 is also involved in growth factor binding proteins and receptors, which are main factors for cell proliferation and inhibition of apoptosis. The protein is a gelatinase and is released as a pro-enzyme. The domain structure of the protein can be divided into five regions. Mutations in the MMP2 gene are responsible in the pathogenesis of both Torg and NAO (Nodulosis-Arthropathy-Osteolysis) syndromes. Mutations can be small deletions, splicing errors, or homozygous and compound heterozygous loss-of-function single-base changes. High levels of MMP2 expression are often correlated with clinicopathological features of BC (Breast cancer), such as tumor size, lymph node metastasis, distant metastasis, histological grade and hormone receptor status, but the conclusions remain controversial.

### Product Info

<b>Amount :</b>	25 µg / 100 µg
<b>Purification :</b>	Protein G Chromatography
<b>Content :</b>	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
<b>Storage condition :</b>	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

### Application Note

WB: 4-6 µg/ml

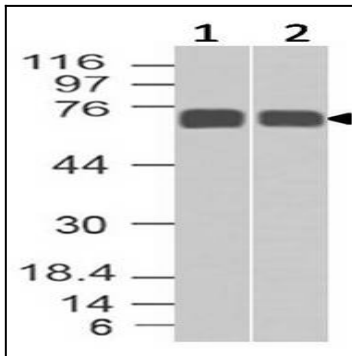


Figure-1: Western blot analysis of MMP2. Anti-MMP2 antibody (Clone : ABM5A31) was used at 4  $\mu$ g/ml on (1) T98G and (2) 3T3 lysates.