

## 36-2787: Anti-MMP2 / Collagenase Type IV A (Tumor Metastasis Marker) Monoclonal Antibody(Clone: MMP2/1501)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	MMP2/1501
<b>Application :</b>	WB
<b>Reactivity :</b>	Human
<b>Gene :</b>	MMP2
<b>Gene ID :</b>	4313
<b>Uniprot ID :</b>	P08253
<b>Alternative Name :</b>	72kD type IV collagenase; CLG4A; Collagenase Type 4 alpha; Collagenase type IV A; Gelatinase A; Gelatinase alpha; Gelatinase neutrophil; Matrix metalloproteinase-2; MMP2; MONA; Neutrophil gelatinase; PEX; TBE-1
<b>Isotype :</b>	Mouse IgG1, kappa
<b>Immunogen Information :</b>	Recombinant human MMP2 protein fragment (aa 444-575) (exact sequence is proprietary)

### Description

It recognizes a protein of 72kDa, which is identified as MMP2. 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.

### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
<b>Storage condition :</b>	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

### Application Note

Western Blot (1-2ug/ml)

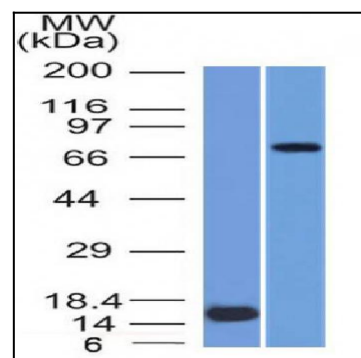


Fig. 1: Western Blot of (1) Recombinant MMP2 protein and (2) U87 cell lysate using MMP2 Monoclonal Antibody (MMP2/1501).

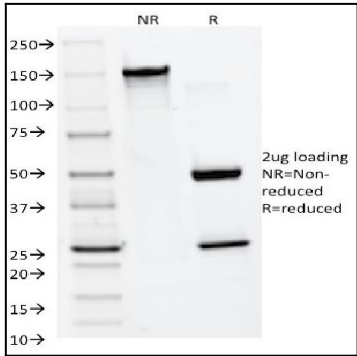


Fig. 2: SDS-PAGE Analysis Purified MMP2 Monoclonal Antibody (MMP2/1501). Confirmation of Integrity and Purity of Antibody.

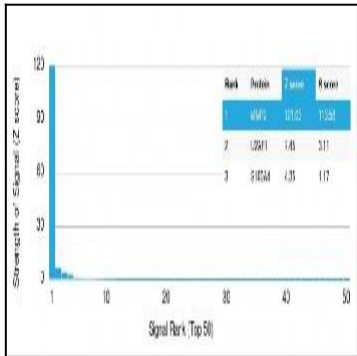


Fig. 3: Analysis of Protein Array containing more than 19,000 full-length human proteins using MMP2 Mouse Monoclonal Antibody (MMP2/1501) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.