Datasheet for ABIN6940067

anti-MMP2 antibody (AA 444-575)

3 Images

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Overview

Quantity:	100 µg
Target:	MMP2
Binding Specificity:	AA 444-575
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MMP2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Recombinant human MMP2 protein fragment (aa 444-575) (exact sequence is proprietary)
Clone:	MMP2-1501
Isotype:	IgG1 kappa
Specificity:	It recognizes a protein of 72 kDa, 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.
Purification:	Purified by Protein A/G

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Target Details

Target:	MMP2
Alternative Name:	MMP2 (MMP2 Products)
Molecular Weight:	72kDa (Pro), 63kDa (cleaved)
Gene ID:	4313
UniProt:	P08253
Pathways:	Activation of Innate immune Response

Application Details

Application Notes:	Positive Control: U-138 MG or U-87 MG cells. Placenta or Colon Carcinoma. Known Application: Western Blot (0.5-1 µg/mL) Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	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. No MSDS required.
Expiry Date:	24 months

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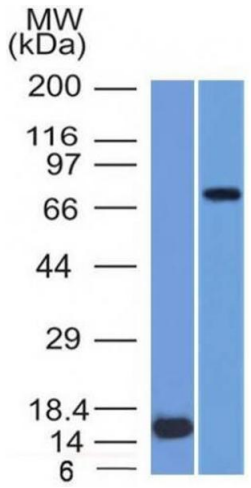
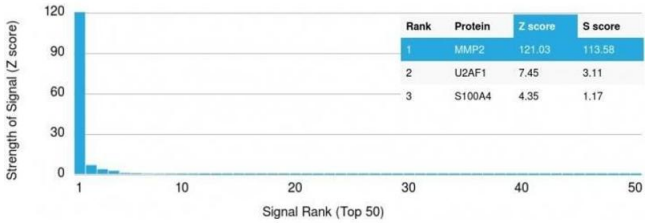


Western Blotting

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



Protein Array

Image 2. 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 HuProtTM 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 HuProtTM 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.

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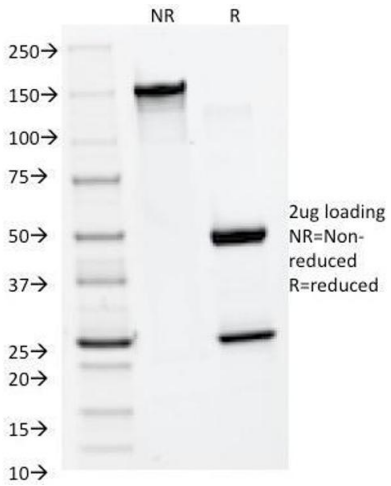

SDS-PAGE

Image 3. SDS-PAGE Analysis Purified MMP2 Monoclonal Antibody (MMP2/1501). Confirmation of Integrity and Purity of Antibody.