

MMP2 Monoclonal Antibody (F14 P4 D3)

Product Details

Size	100 µg
Species Reactivity	Human, Rat
Published Species	Bovine, Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	F14 P4 D3
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues T(557) S L G L P P D V Q R V D(569) of human MMP-2.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_889473

Applications	Tested Dilution	Publications
Western Blot (WB)	1:200-1:500	5 Publications
Flow Cytometry (Flow)	-	1 Publication
ELISA (ELISA)	1-2 µg	-

Product Specific Information

MA1-772 contains 100 µg of in vitro produced, protein A purified antibody (1 mg/mL) in PBS containing 1 mg/mL BSA and 0.05% sodium azide.

MA1-772 detects MMP-2 from human and rat samples.

MA1-772 has been successfully used in Western blot applications. By Western blot, MA1-772 detects a ~50 kDa band representing MMP-2 from WI-38 cell lysate or rat lung samples.

The MA1-772 immunogen is a synthetic peptide corresponding to residues T(557) S L G L P P D V Q R V D(569) of human MMP-2.

MA1-772 has been successfully used in western blotting and ELISA analysis of MMP2 in human and rat samples.

By Western blot, MA1-772 detects a ~74 kDa band representing MMP2 in MCF7 and HT-1080 cell lysate or rat lung.

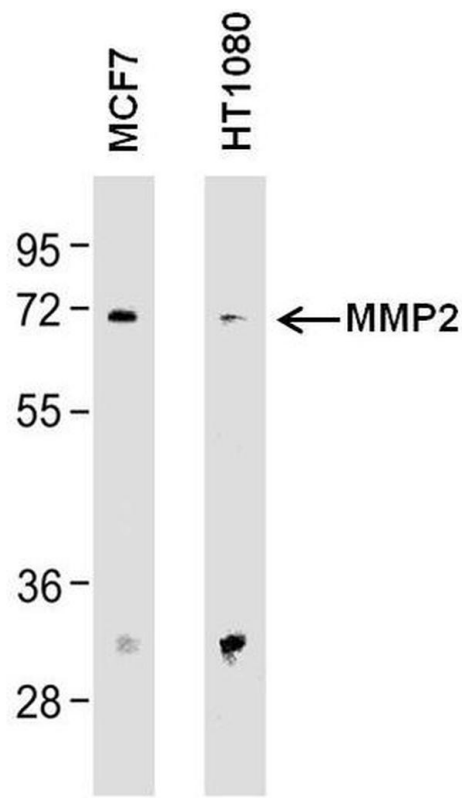
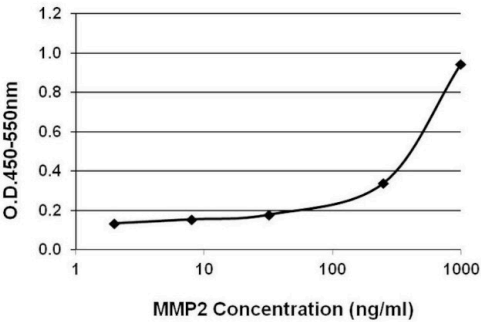
Product Images For MMP2 Monoclonal Antibody (F14 P4 D3)

MMP2 Antibody (MA1-772) in ELISA

Direct ELISA analysis of MMP2 was performed by coating wells of a 96-well plate with 100 μ L per well of recombinant MMP2 protein diluted in carbonate /bicarbonate buffer (Product # 28382) at a concentration of 1 μ g/mL overnight at 4C. Wells of the plate were washed, blocked with StartingBlock blocking buffer (Product # 37538), and incubated with 100 μ L per well of a MMP2 mouse monoclonal antibody (Product # MA1-772) at a starting concentration of 1 μ g/mL and serially diluting 2-fold to a concentration of 31 ng/mL for 1 hour at 37C, followed by a goat anti-mouse IgG-HRP secondary antibody (Product # 31430) at a dilution of 1:10,000 for 30 minutes at 37c. The plate was washed, then detection was performed using 1-Step Ultra TMB substrate (Product # 34028) for 10 minutes at room temperature in the dark. The reaction was stopped with 0.16 M sulfuric acid, and absorbances were read on a spectrophotometer at 450-550 nm.

MMP2 Antibody (MA1-772) in WB

Western blot analysis of MMP2 was performed by loading 25 μ g of the indicated whole cell lysates and 10 μ L Prestained Protein Ladder per well onto a 4-20% Tris-Glycine polyacrylamide gel. Proteins were transferred to a nitrocellulose membrane using the G2 Fast Blotter (Product # 62288) and blocked with 5% Milk /TBST for at least 1 hour at room temperature. MMP2 was detected at ~74 kD using a MMP2 mouse monoclonal antibody (Product # MA1-772) at a concentration of 5 μ g/mL in blocking buffer overnight at 4°C on a rocking platform, followed by a goat anti-mouse IgG-HRP secondary antibody (Product # 31430) at a dilution of 1:10,000 for at least 1 hour. Chemiluminescent detection was performed using SuperSignal West Dura (Product # 34076).



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Western Blot (5)

<p>Molecular medicine reports</p> <p>miR205 suppresses cell migration, invasion and EMT of colon cancer by targeting mouse double minute 4.</p> <p>"Published figure using MMP2 monoclonal antibody (Product # MA1-772) in Western Blot"</p> <p>Authors: Fan Y,Wang K</p>	<p>Year 2020</p> <p>Species Human</p> <p>Dilution 1:1000</p>
<p>Medical science monitor : international medical journal of experimental and clinical research</p> <p>Silence of Stomatin-Like Protein 2 Represses Migration and Invasion Ability of Human Liver Cancer Cells via Inhibiting the Nuclear Factor Kappa B (NF-B) Pathway.</p> <p>"MA1-772 was used in Western Blotting to study the potential roles and mechanisms of si-STOML2 in the migration and invasion of human hepatoma LM3 cells."</p> <p>Authors: Zhu W,Li W,Geng Q,Wang X,Sun W,Jiang H,Pu X</p>	<p>Year 2018</p> <p>Species Human</p> <p>Dilution 1:1200</p>

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Flow Cytometry (1)

<p>International journal of molecular sciences</p> <p>Embryonic Trophectoderm Secretomics Reveals Chemotactic Migration and Intercellular Communication of Endometrial and Circulating MSCs in Embryonic Implantation.</p> <p>"MA1-772 was used in Flow Cytometry to identify epithelial-mesenchymal transition stages using bovine blastocyst embryonic trophectoderm primary cultures."</p> <p>Authors: Calle A,Toribio V,Yáñez-Mó M,Ramírez MÁ</p>	<p>Year 2021</p> <p>Species Bovine</p>
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