



MMP13 Monoclonal Antibody (VIIIA2)

Product Details	
Size	500 μL
Species Reactivity	Human, Mouse
Published Species	Rabbit, Rat, Mouse, Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Туре	Antibody
Clone	VIIIA2
Conjugate	Unconjugated
Immunogen	Human recombinant collagenase-3 protein
Form	Liquid
Concentration	0.4 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_10981616

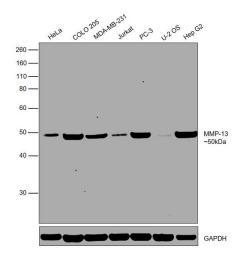
Applications	Tested Dilution	Publications
Western Blot (WB)	2-4 μg/mL	5 Publications
Immunohistochemistry (IHC)	-	35 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:12.5-1:25	4 Publications
Immunocytochemistry (ICC/IF)	-	2 Publications
Immunoprecipitation (IP)	1:25-1:50	-

Product Specific Information

MA5-14238 targets MMP-13 (Collagenase-3) in IHC (P) and IP applications and shows reactivity with Human, mouse, and Rabbit samples.

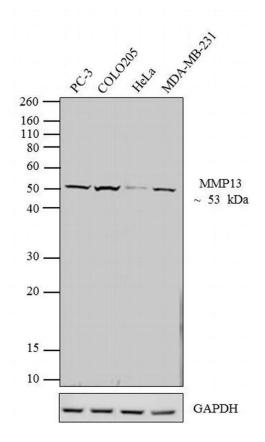
The MA5-14238 immunogen is human recombinant collagenase-3 protein.

Product Images For MMP13 Monoclonal Antibody (VIIIA2)



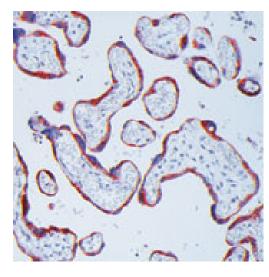
MMP13 Antibody (MA5-14238) in WB

Western blot was performed using Anti-MMP13 Monoclonal Antibody (VIIIA2) (Product # MA5-14238) and a 50 kDa band corresponding to the activated form of MMP-13 was observed in all the tested cell lines. Whole cell lysates (30 µg lysate) of HeLa (Lane 1), COLO 205 (Lane 2), MDA-MB-231 (Lane 3), Jurkat (Lane 4), PC-3 (Lane 5), U-2 OS (Lane 6) and Hep G2 (Lane 7) were electrophoresed using NuPAGE® 10 % Bis-Tris gel (Product # NP0302BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blots were probed with the primary antibody (3 µg/mL) and detected by chemiluminescence Goat anti-Mouse IgG (H+L), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



MMP13 Antibody (MA5-14238) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of PC-3 (Lane 1), COLO205 (Lane 2), HeLa (Lane 3) and MDA-MB-231 (Lane 4). The blots were probed with Anti-MMP-13 Mouse Monoclonal Antibody (Product # MA5-14238, 2-4 µg/mL) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Secondary Antibody, HRP conjugate (Product # 62-6520, 1: 4000 dilution). A 53 kDa band corresponding to MMP-13 was observed across cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 10 % Bis-Tris gel (Product # NP0301BOX), XCell SureLock™ Electrophoresis System (Product # El0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



MMP13 Antibody (MA5-14238) in IHC (P)

Formalin-fixed, paraffin-embedded human placenta stained with MMP-13 antibody using peroxidase-conjugate and AEC chromogen. Note cytoplasmic staining of trophoblasts.

View more figures on thermofisher.com

□ 46 References

Western Blot (5)

The FEBS journal

Drugging the circadian clock feedback cycle to ameliorate cartilage degeneration.

"Published figure using MMP13 monoclonal antibody (Product # MA5-14238) in Immunocytochemistry" Authors: He T,Pang S,Wang H,Yun H,Hao X,Jia L,Liu H,Wang D,Wang D,Xu H,Jie Q,Yang L,Zheng C

Year 2022

Journal of immunology (Baltimore, Md.: 1950)

HE4 Overexpression by Ovarian Cancer Promotes a Suppressive Tumor Immune Microenvironment and Enhanced Tumor and Macrophage PD-L1 Expression.

"MA5-14238 was used in Western Blotting to identify HE4 as a mediator of tumor-immune suppression in ovarian cancer, highlighting this molecule as a potential therapeutic target for the treatment of this devastating disease."

Authors: Rowswell-Turner RB,Singh RK,Urh A,Yano N,Kim KK,Khazan N,Pandita R,Sivagnanalingam U,Hovanesian V, James NE.Ribeiro JR.Kadambi S.Linehan DC.Moore RG

Year 2021

Species Human

Dilution 1:200

View more WB references on thermofisher.com

Immunohistochemistry (35)

International journal of molecular sciences

Irisin Modulates Inflammatory, Angiogenic, and Osteogenic Factors during Fracture Healing.

"MA5-14238 was used in Immunohistochemistry to suggest that irisin can contribute to fracture repair by reducing inflammation and promoting vessel invasion, matrix degradation, and bone formation, supporting its possible role as a novel molecule for fracture treatment."

Authors: Oranger A,Zerlotin R,Buccoliero C,Sanesi L,Storlino G,Schipani E,Kozloff KM,Mori G,Colaianni G,Colucci S,Grano M

Year 2023

Species Mouse

Stem cell research & therapy

Modeling early changes associated with cartilage trauma using humancell-laden hydrogel cartilage models.

"MA5-14238 was used in Immunohistochemistry to show that traumatic impacts delivered to engineered cartilage constructs induced PTOA-like changes in the encapsulated cells."

Authors: He C,Clark KL,Tan J,Zhou H,Tuan RS,Lin H,Wu S,Alexander PG

Year 2022

Species Human

Dilution 1:25

View more IHC references on thermofisher.com

More applications with references on thermofisher.com

IHC (P) (4) ICC/IF (2)

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