MMP3 Monoclonal Antibody (SL-1 IID4)

Product Details	
Size	500 µL
Species Reactivity	Human, Mouse
Published Species	Human
Host/Isotope	Mouse / IgG2b
Class	Monoclonal
Type	Antibody
Clone	SL-1 IID4
Conjugate	Unconjugated
Immunogen	APMA (4-Aminophenylmercuric acetate) activated Human stromelysin-1 (SL-1)
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C
RRID	AB_10986089

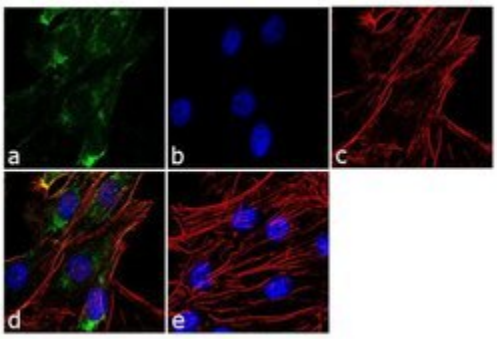
Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	2 µg/mL	-
Immunofluorescence (IF)	2 µg/mL	-
Western Blot (WB)	1-3 µg/mL	4 Publications
Immunohistochemistry (IHC)	-	4 Publications

Product Specific Information

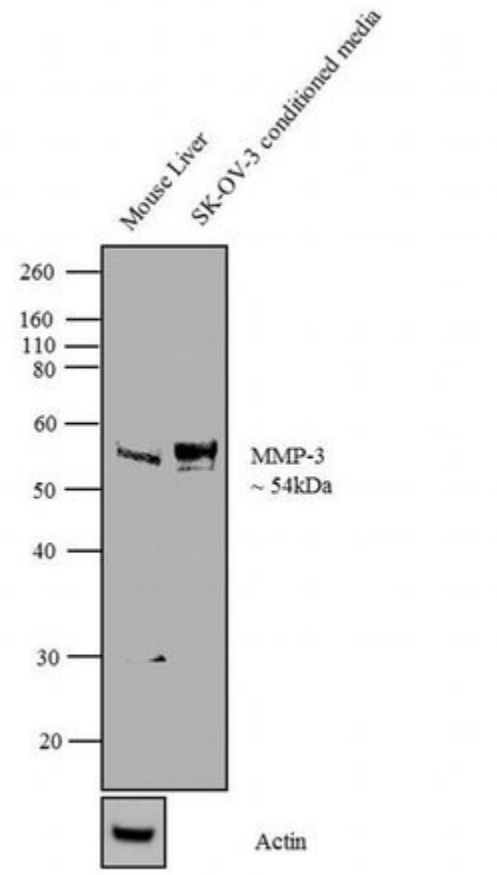
MA5-14210 targets MMP-3 (Stromelysin-1) in IF and WB applications and shows reactivity with Human samples.

The MA5-14210 immunogen is aPMA (4-Aminophenylmercuric acetate) activated Human stromelysin-1 (SL-1).

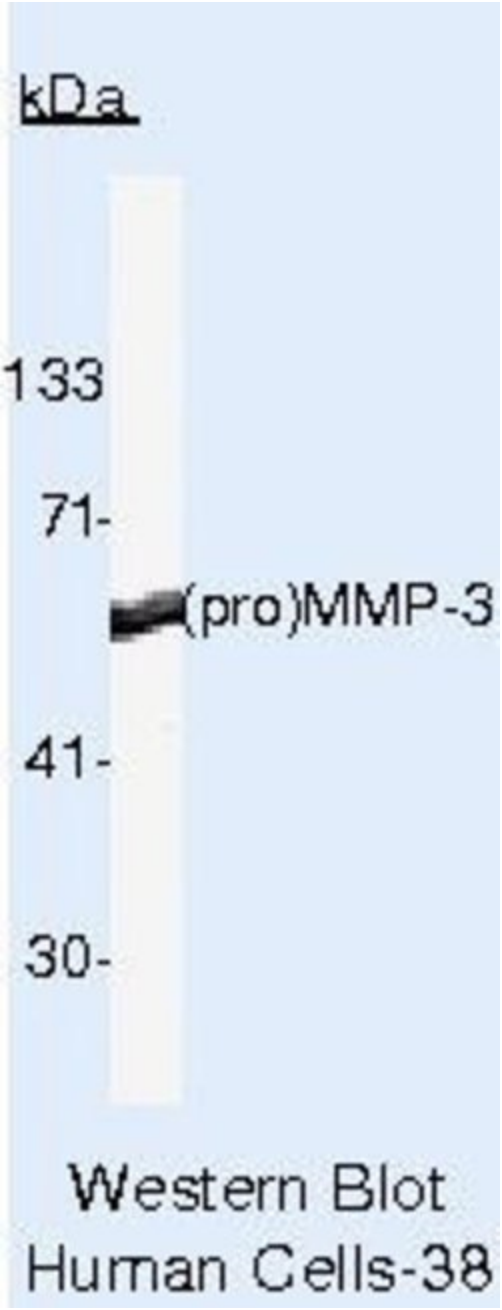
Product Images For MMP3 Monoclonal Antibody (SL-1 IID4)



MMP3 Antibody (MA5-14210) in IF
Immunofluorescence analysis of MMP-3 (Stromelysin-1) was performed using 70% confluent log phase MDA-MB-231 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with MMP-3 (Stromelysin-1) (SL-1 IID4) Mouse Monoclonal Antibody (Product # MA5-14210) at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) a dilution of 1: 2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.



MMP3 Antibody (MA5-14210) in WB
Western blot analysis of MMP-3 was performed using tissue extract (30 µg lysate) of Mouse Liver (Lane 1) and 10uL of conditioned media from SK-OV-3 cell line (Lane 2). The blots were probed with Anti-MMP-3 Mouse Monoclonal Antibody (Product # MA5-14210, 2 µg/mL) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.4 µg/mL, 1:2500 dilution). A 54 kDa band corresponding to MMP-3 was observed in tissue and conditioned media tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 10 % Bis-Tris gel (Product # NP0302BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) 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).



MMP3 Antibody (MA5-14210) in WB
Western blot of MMP-3 (Stromelysin-1) using MMP-3 (Stromelysin-1) Monoclonal Antibody (Product # MA5-14210) on Hu Endometrium Cells.

8 References

Immunohistochemistry (4)

Australian dental journal

Immunoexpression of matrix metalloproteinases and their inhibitors in different areas of oral squamous cell carcinoma.

"MA5-14210 was used in immunohistochemistry to study the expression of MMPs and TIMPs in different histopathological regions of oral squamous cell carcinomas"

Authors: Suarez-Roa ML,Asbun-Bojalil J,Ruiz-Godoy LM,Meneses-García AA

Species
Human

Dilution
1:50

Year
2012

Cardiovascular pathology : the official journal of the Society for Cardiovascular Pathology

Creation, validation, and quantitative analysis of protein expression in vascular tissue microarrays.

"MA5-14210 was used in immunohistochemistry to evaluate the usefulness of tissue microarray technology for protein analysis in vascular segments"

Authors: Halushka MK,Cornish TC,Lu J,Selvin S,Selvin E

Species
Human

Dilution
1:20

Year
2010

View more IHC references on thermofisher.com

Western Blot (4)

Journal of periodontal research

Cigarette smoke condensate affects the collagen-degrading ability of human gingival fibroblasts.

"MA5-14210 was used in western blot to study the effect of cigarette smoke condensate on the collagen-degrading ability of human gingival fibroblasts"

Authors: Zhang W,Song F,Windsor LJ

Species
Human

Dilution
5 ug/ml

Year
2009

Journal of periodontal research

Nicotine increases the collagen-degrading ability of human gingival fibroblasts.

"MA5-14210 was used in western blot to study the role of nicotine in increasing the collagen-degrading ability of human gingival fibroblasts"

Authors: Zhou J,Olson BL,Windsor LJ

Species
Human

Dilution
5 ug/ml

Year
2007

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