

MMP9 Monoclonal Antibody (IA5)

Product Details	
Size	500 µL
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	IA5
Conjugate	Unconjugated
Immunogen	Human native 92kDa MMP-9
Form	Liquid
Concentration	0.2 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_10981736

Applications	Tested Dilution	Publications
Western Blot (WB)	2-4 µg/mL	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	1:10-1:100	-

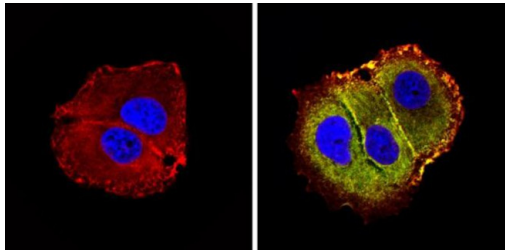
Product Specific Information

MA5-14220 targets MMP-9 (92kDa Collagenase IV) in ICC/IF, IP, and WB applications and shows reactivity with Human samples.

The MA5-14220 immunogen is human native 92kDa MMP-9.

Product Images For MMP9 Monoclonal Antibody (IA5)

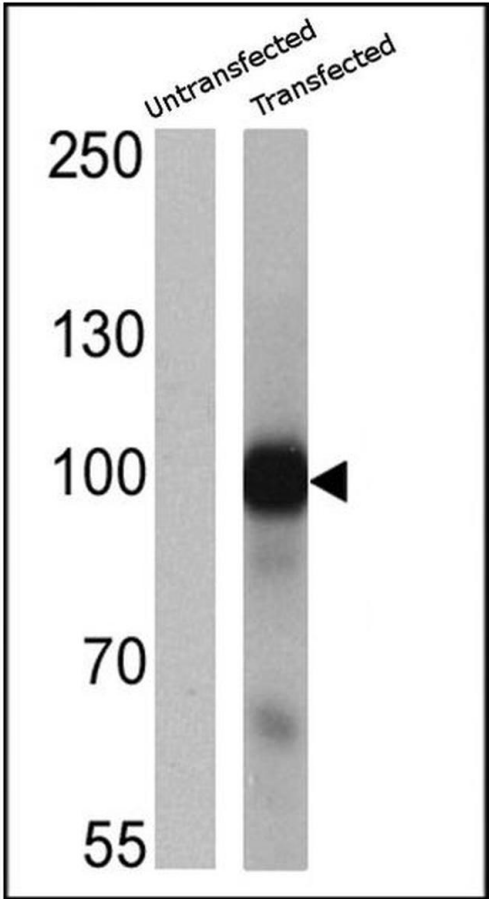
MMP9 Antibody (MA5-14220) in ICC/IF



Immunofluorescent analysis of MMP-9 (92kDa Collagenase IV) (green) showing staining in the cytoplasm of MCF-7 cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a MMP-9 (92kDa Collagenase IV) monoclonal antibody (Product # MA5-14220) in 3% BSA-PBS at a dilution of 1:20 and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.

MMP9 Antibody (MA5-14220) in WB

Western blot analysis of MMP-9 was performed by loading 25 µg of untransfected 293T cell lysate (lane 1) and transfected LY10824a cell lysate over-expressing MMP-9 (lane 2) onto an SDS polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked at 4°C overnight. The membrane was probed with a MMP-9 monoclonal antibody (Product # MA5-14220) at a dilution of 1:20 overnight at 4°C, washed in TBST, and probed with an HRP-conjugated secondary antibody for 1 hr at room temperature in the dark. Chemiluminescent detection was performed using Pierce ECL Plus Western Blotting Substrate (Product # 32132). Results show a band at ~92 kDa.



Western Blot (1)

Molecules and cells	Year 2016
MicroRNA-27a Inhibits Cell Migration and Invasion of Fibroblast-Like Synoviocytes by Targeting Follistatin-Like Protein 1 in Rheumatoid Arthritis.	Species Human
"MA5-14220 was used in western blot to investigate the effects of miR-27a on cell migration and invasion in fibroblast-like synoviocytes from rheumatoid arthritis patients"	Dilution 1:500
Authors: Shi DL,Shi GR,Xie J,Du XZ,Yang H	

Immunohistochemistry (1)

Pathobiology : journal of immunopathology, molecular and cellular biology	Year 2009
Inflammatory infiltrates and neovessels are relevant sources of MMPs in abdominal aortic aneurysm wall.	Species Human
"MA5-14220 was used in immunohistochemistry to investigate the expression of matrix metalloproteinases in inflammatory infiltrates and neovessels in abdominal aortic aneurysm wall"	Dilution 1:100
Authors: Reeps C,Pelisek J,Seidl S,Schuster T,Zimmermann A,Kuehnl A,Eckstein HH	

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