

MMP9 Monoclonal Antibody (IA5)

| Product Details | |
|--------------------|----------------------------|
| Size | 500 µL |
| Species | Human |
| Published Species | Human |
| Expression System | 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 |
|----------------------------|-----------------|---------------|
| Immunocytochemistry (ICC) | 1:10-1:100 | - |
| Immunofluorescence (IF) | 1:10-1:100 | - |
| Western Blot (WB) | 2-4 µg/mL | 1 Publication |
| Immunohistochemistry (IHC) | - | 1 Publication |

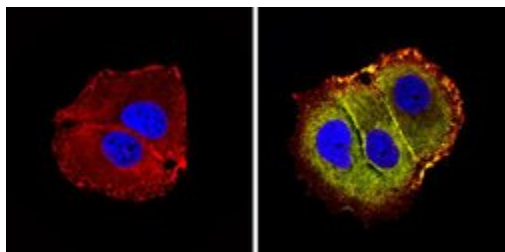
Product Specific Information

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)

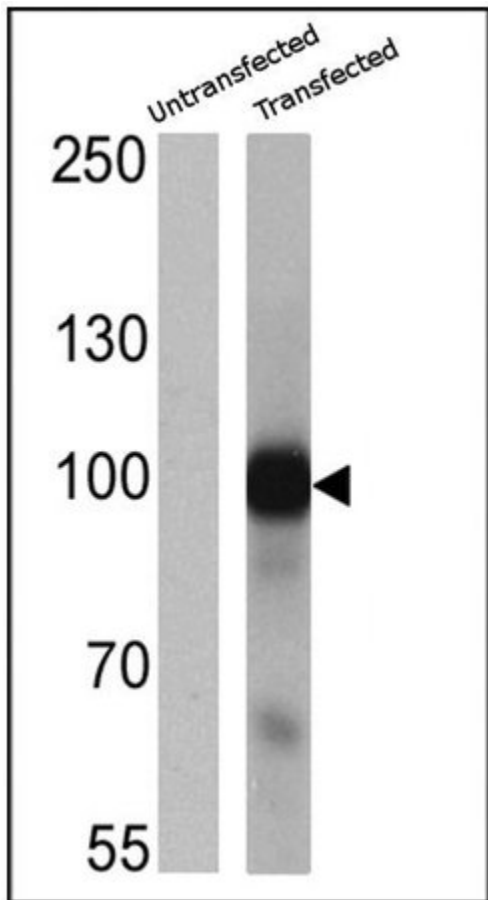
MMP9 Antibody (MA5-14220) in IF

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

MicroRNA-27a Inhibits Cell Migration and Invasion of Fibroblast-Like Synoviocytes by Targeting Follistatin-Like Protein 1 in Rheumatoid Arthritis.

"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"

Authors: Shi DL, Shi GR, Xie J, Du XZ, Yang H

Species
Human

Dilution
1:500

Year
2016

Immunohistochemistry (1)

Pathobiology : journal of immunopathology, molecular and cellular biology

Inflammatory infiltrates and neovessels are relevant sources of MMPs in abdominal aortic aneurysm wall.

"MA5-14220 was used in immunohistochemistry to investigate the expression of matrix metalloproteinases in inflammatory infiltrates and neovessels in abdominal aortic aneurysm wall"

Authors: Reeps C, Pelisek J, Seidl S, Schuster T, Zimmermann A, Kuehnl A, Eckstein HH

Species
Human

Dilution
1:100

Year
2009

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