Cy3 Conjugated Goat anti-Mouse IgG polyclonal Antibody

HA1109

Product Type:	Goat polyclonal IgG, secondary antibodies
Species reactivity:	Mouse
Applications:	IF-Cell, IF-Tissue

Description: Whole IgG antibodies are isolated as intact molecules from antisera by immunoaffinity chromatography. They have an Fc portion and two antigen binding Fab portions joined together by disulfide bonds and therefore they are divalent. The average molecular weight is reported to be about 160 kDa. The whole IgG form of antibodies is suitable for the majority of immunodetection procedures and is the most cost effective.Cy3 is brighter, more photostable, and gives less background than other orange-red fluorescing dye conjugates. Cy3 conjugates can be excited maximally at 550 nm, with peak emission at 570 nm. For fluorescence microscopy, Cy3 can be visualized with traditional tetramethyl rhodamine (TRITC) filter sets, since the excitation and emission spectra are nearly identical to those of TRITC. We recommend Cy3 as a brighter alternative to TRITC. Cy3 can be excited to about 50% of maximum with an argon laser (514 nm or 528 nm lines), or to about 75% of maximum with a helium/neon laser (543 nm line) or mercury lamp (546 nm line). Cy3 has been used with fluorescein for double labeling; however, the use of a narrow band-pass emission filter for fluorescein is recommended to minimize Cy3 fluorescence in the FITC filter set. Cy3 can also be paired with Alexa Fluor® 647 for multiple labeling when using a confocal microscope. However, a better choice for multiple labeling is Rhodamine Red-X because its fluorescence is midway between a green fluorescing dye (like Alexa Fluor® 488) and a far-red-fluorescing dye like Alexa Fluor® 647.

Conjugate: Cy3, Amax: 550 Emax: 570nm

Immunogen: Mouse IgG (H+L).

Recommended Dilutions:

IF-Cell	1:500
IF-Tissue	1:500

Storage Buffer: 1*PBS (pH7.4), 1% BSA, 40% Glycerol, 0.2% Proclean 950.

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Immunogen affinity purified.

Images

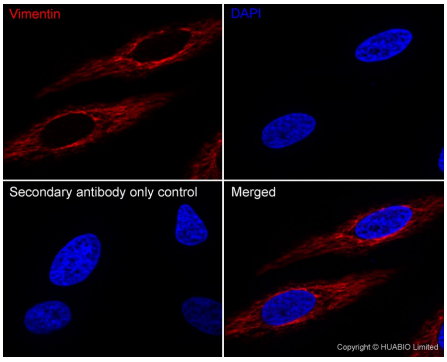

Fig1: Immunocytochemistry analysis of HeLa cells labeling Vimentin with Mouse anti-Vimentin antibody (EM0401) at 1/100 dilution.

Cells were fixed in 4% paraformaldehyde for 15 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Mouse anti-Vimentin antibody (EM0401) at 1/100 dilution in 1% BSA in PBST overnight at 4 ℃. Goat Anti-Mouse IgG H&L (Cy3, HA1109) was used as the secondary antibody at 1/500 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

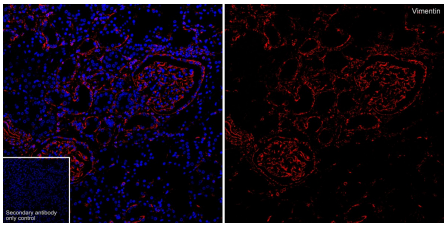

Fig2: Application: IF-Tissue

Species: Human

Site: kidney

Sample: Paraffin-embedded section

Primary antibody (Vimentin, EM0401) concentration: 1/400

Secondary Antibody (HA1109) concentration: 1/500

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".