Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 790

Product Details

Size	1 mg
Species Reactivity	Mouse
Host/Isotype	Goat / IgG
Class	Polyclonal
Type	Secondary Antibody
Conjugate	Alexa Fluor™ 790
Excitation/Emission Max	782/805 nm
Immunogen	Gamma Immunoglobins Heavy and Light chains
Form	Liquid
Concentration	2 mg/mL
Purification	purified
Storage buffer	PBS, pH 7.5
Contains	5mM sodium azide
Storage conditions	4° C, store in dark
RRID	AB_2534140

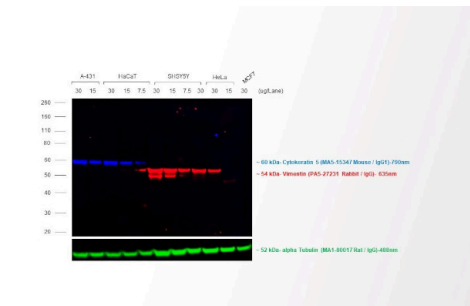| Applications	Tested Dilution	Publications
Western Blot (WB)	1:5,000-1:20,000	0 Publication
Immunocytochemistry (ICC/IF)	1-10 µg/mL	-
Flow Cytometry (Flow)	1-10 µg/mL	-

Product Specific Information

This secondary antibody is designed for fluorescent Western blot detection on various near-infrared fluorescence instruments. This antibody can be used for multi-color and multiplexing detection when using other antibodies conjugated to compatible Alexa Fluor™ dyes and wavelengths. Other applications of this antibody include immunofluorescent and fluorescent imaging applications when using instrumentation with appropriate excitation and detection capabilities.

Product will be shipped at Room Temperature.

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Product Images For Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 790
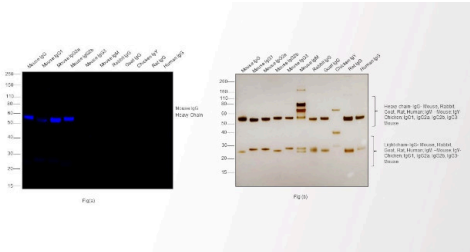

Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody (A11357) in WB

Multiplexed fluorescent western blot was performed using Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor 790 (Product # A11357). Whole cell extracts of A-431 (Lane 1, 2), HaCaT (Lane 3, 4, 5), SH-SY5Y (Lane 6, 7, 8), HeLa (Lane 9, 10) and MCF7 (Lane 11) were electrophoresed usingNuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP03222BOX). Resolved proteins were transferred onto anitrocellulose membrane (Product # IB23001) byiBlot® 2 Dry BlottingSystem (Product # IB21001). The blot was probed with Cytokeratin 5 Monoclonal Antibody (3E2F1) (Product # MA5-15347), Vimentin Rabbit IgG Polyclonal Antibody (Product # PA5-27231) and alpha Tubulin Monoclonal Antibody (YL1/2) (Product # MA1-80017). Secondary antibodies (Product # A-11357, 1:20,000), (Product # A-31577, 1:10,000) and (Product # A48269, 1:10,000) were used for detection of Cytokeratin 5, Vimentin and alpha Tubulin respectively. Fluorescent detection was performed usingiBright™FL1500 (Product # A44115). The anti-mouse secondary antibody (Product # A11357) specifically detects the mouse primary antibody.
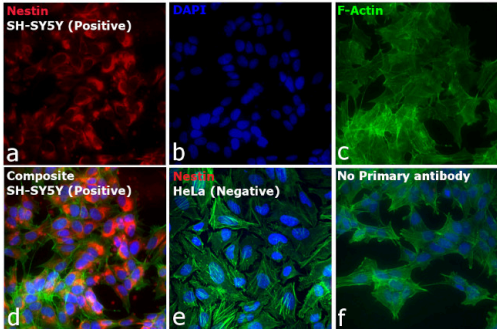

Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody (A11357)

Specificity of secondary antibody was demonstrated by specific detection of the target immunoglobulin. Antibody specificity was demonstrated by specific detection of Mouse IgG. A band at ~55 kDa corresponding to Mouse IgG Heavy Chain was observed in Mouse IgG, Mouse IgG1, Mouse IgG2a, Mouse IgG2b and Mouse IgG3 but not in other species using Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 790 (Product # A11357) in Western Blot. {RE}

Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody (A11357) in ICC/IF

Immunofluorescence analysis of Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 790 (Product # A11357) was performed using SH-SY5Y (positive model) and HeLa (negative model) cells stained with Nestin Monoclonal Antibody (10C2), eBioscience™ (Product # 14-9843-80). The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, blocked with 2% BSA for 1 hour and labeled with 1:500 dilution of primary antibody overnight at 4C. Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 790 (Product # A11357, 1:2000 dilution) in 0.1% BSA in PBS for 1 hour at room temperature, was used for detection of Nestin in the cytoskeleton (Panel a: red). Nuclei (Panel b: blue) were stained with Hoechst33342 (Product # H1399). F-actin was stained with Alexa Fluor® 488 Phalloidin (Product # A12379, 1:500) (Panel c: green). Panel d represents the composite image. The specificity of the secondary antibody was proved by the absence of signal in HeLa (negative model for Nestin) due to no primary antibody binding (Panel e). Non-specific staining was not observed with secondary antibody alone (panel f). The images were captured at 40X magnification in CellInsight CX7 LZR High-Content Screening (HCS) Platform (Product # CX7A1110LZR) and externally deconvoluted (D.Sage et al./Methods 115 (2017) 28–41).

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⚑ 23 References

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