Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 680

Product Details	
Size	1 mg
Species Reactivity	Mouse
Host/Isotype	Goat / IgG
Class	Polyclonal
Type	Secondary Antibody
Conjugate	Alexa Fluor™ 680
Excitation/Emission Max	681/704 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_2535724

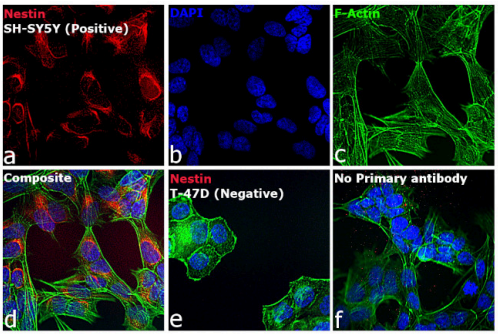
Applications	Tested Dilution	Publications
Western Blot (WB)	1:5,000-1:20,000	0 Publication
Immunocytochemistry (ICC/IF)	1:200-1:2,000	0 Publication
Miscellaneous PubMed (Misc)	-	0 Publication

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.

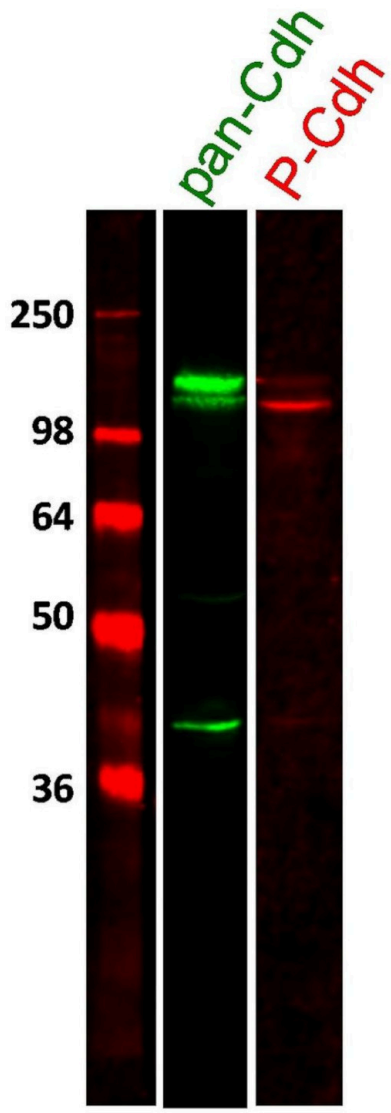
Product will be shipped at Room Temperature.

Product Images For Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 680



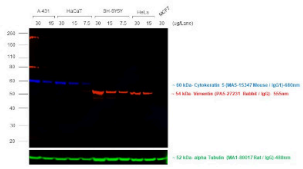
Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody (A-21058) in ICC/IF

Immunofluorescence analysis of Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 680 (Product # A-21058) was performed using SH-SY5Y (positive model) and T-47D (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 10 minutes, blocked with 2% BSA for 1 hour and labeled with 2 µg/mL primary antibody for 3 hours at room temperature. Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 680 (Product # A-21058, 1:2000) in 0.1% BSA in PBS for 45 minutes 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® 647 Phalloidin (Product # A22287, 1:1000) (Panel c: Green). Panel d represents the composite image. The specificity of the secondary antibody was proved by the absence of signal in T-47D (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).



Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody (A-21058) in ICC/IF

Western blot analysis of total Cadherin and P-Cadherin was performed by loading and 2 µL SeeBlue® Plus2 Prestained Protein Ladder (Product # LC5925), 50 µg of MDCK cell lysates per well onto a 4-20% Tris-HCl polyacrylamide gel. Proteins were transferred to a nitrocellulose membrane and blocked with 1% BSA/TBST for at least 1 hour at room temperature. Total cadherin was detected using a rabbit antibody (Product # 71-7100) and P-Cadherin was detected using a mouse antibody (Product # 32-4000), both at a concentration of 1 µg/mL in blocking buffer overnight at 4°C on a rocking platform. The blot was then incubated with a goat anti-rabbit IgG-Alexa fluor 790 secondary antibody (Product # A11369) and a goat anti-mouse IgG-Alexa Fluor 680 secondary antibody (Product # A-21058) at a dilution of 1:10,000 for at least 1 hour. Fluorescent detection was performed using the Odyssey® CLx imaging system (Li-cor Biosciences). Images is generated by Joell Solan in Paul Lampe Lab at Fred Hutchinson Cancer Research Center.



Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody (A-21058) in WB

Multiplexed fluorescent western blot was performed using Goat anti-Mouse IgG (Heavy Chain) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 680 (Product # A-21058). 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-21058, 1:20,000), (Product # A27039, 1:5000) 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 # A-21058) specifically detects the mouse primary antibody.

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288 References

Establishment of the phagophore-ERES membrane contact site initiates phagophore elongation. Nat Struct Mol Biol (2025)

Combining light-induced aggregation and biotin proximity labeling implicates endolysosomal proteins in early -synuclein oligomerization. iScience (2025)

The Identification of Proteolytic Substrates of Calpain-5 with N-Terminomics. Int J Mol Sci (2025)

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Human Papillomavirus Type 16 Stimulates WAVE1- and WAVE2-Dependent Actin Protrusions for Endocytic Entry. Viruses (2025)