Goat anti-Mouse IgG2a Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 594

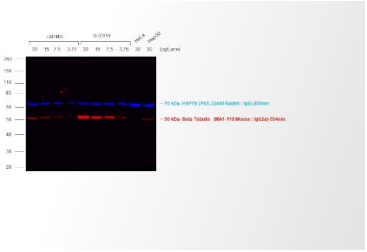
Product Details	
Size	500 µg
Species Reactivity	Mouse
Host/Isotype	Goat / IgG
Class	Polyclonal
Type	Secondary Antibody
Conjugate	Alexa Fluor™ 594
Excitation/Emission Max	590/618 nm
Immunogen	Mouse IgG2a
Form	liquid
Concentration	2 mg/mL
Purification	purified
Storage buffer	PBS, pH 7.5
Contains	5mM sodium azide
Storage conditions	4° C, store in dark
RRID	AB_2535774

Applications	Tested Dilution	Publications
Western Blot (WB)	1:2,500-1:5,000	-
Immunohistochemistry (IHC)	1-10 µg/mL	0 Publication
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	0 Publication
Immunocytochemistry (ICC/IF)	1 µg/mL	0 Publication
Flow Cytometry (Flow)	1-10 µg/mL	-
Miscellaneous PubMed (Misc)	-	0 Publication

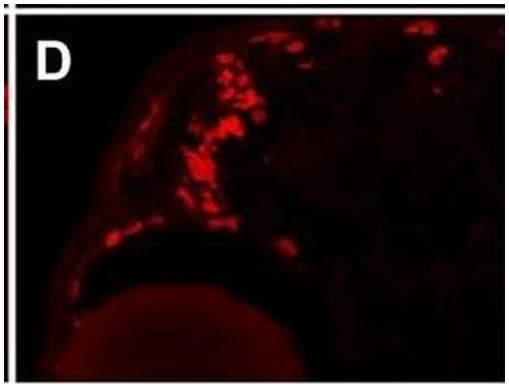
Product Specific Information

Product will be shipped at Room Temperature.

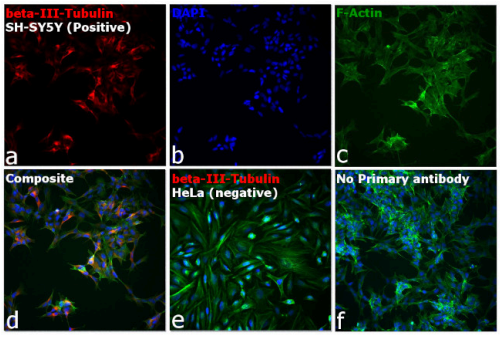
Product Images For Goat anti-Mouse IgG2a Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 594



Mouse IgG2a Cross-Adsorbed Secondary Antibody (A-21135) in WB
Multiplexed fluorescent western blot was performed using Goat anti-Mouse IgG2a Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 594 (Product # A-21135). Whole cell extracts of U-87 MG (Lane 1, 2, 3, 4), SH-SY5Y (Lane 5, 6, 7, 8), HeLa (Lane 9) and Hep G2 (Lane 10) 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 Beta-3 Tubulin Monoclonal Antibody (Product # MA1-118), and HSP70 Polyclonal Antibody (Product # PA5-32446). Secondary antibodies (Product # A-21135, 1:5000 dilution), and (Product # SA5-35571, 1:10000 dilution) were used for detection of Beta-3 Tubulin, and HSP70 respectively. Fluorescent detection was performed usingiBrightFL1500 (Product # A44115). The anti-mouse secondary antibody (Product # A-21135) specifically detects the mouse primary antibody.



Mouse IgG2a Cross-Adsorbed Secondary Antibody (A-21135) in IHC
The tubgcp3 mutant CMZ cells arrest in M-phase showing monopolar spindles and abnormal distributed centrioles and -tubulin. (A–F) Immunostaining analysis of cell proliferation in zebrafish retina at 3 dpf using DNA replication marker (BrdU, red) and mitotic marker (PH3, green). Embryos are incubated with BrdU for 6 h before being collected at 72 hpf for the analysis. Almost all cells in wild-type sibling CMZ are BrdU+ with several PH3+ cells among them (A,C,E). In the (tubgcp3 mutant retina, PH3+ cells are significantly increased (B,F), but BrdU+ cells are markedly decreased (D,F). Note that PH3+ BrdU- cells are detected in the tubgcp3 mutant retina (F) but absent in the wild-type sibling (E). (G) Bar chart analyses depicting quantification of BrdU- and PH3-labeled cells in wild-type sibling and tubgcp3 mutant retinae. Data are mean + SEM from 50 retinal sections for each group. Student's t-test: $P < 0.01$. (H–M) Immunostaining of 3 dpf retinal cryosections with anti--tubulin (red) and anti-PH3 (green) displaying bipolar spindles formed in mitotic cells in wild-type siblings (H,J,L). In the tubgcp3 mutant retina, many mitotic RPCs exhibit monopolar spindles (I,K,M). Insets indicate high-magnification images of mitotic RPCs in rectangles in (H–M). (N) Bar charts depicting quantification of mitotic cells with monopolar spindles in wild-type sibling … Image collected and cropped by CiteAb from the following publication (https://www.frontiersin.org/article/10.3389/fnmol.2019.00126/full), licensed under a CC BY license.



Mouse IgG2a Cross-Adsorbed Secondary Antibody (A-21135) in ICC/IF
Immunofluorescence analysis of Goat anti-Mouse IgG2a Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 594, (Product # A-21135) was performed using SH-SY5Y (positive model) and HeLa (negative model) cells stained with beta-3 Tubulin Monoclonal Antibody (2G10) (Product # MA1-118). 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 overnight at 4C. Goat anti-Mouse IgG2a Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 594 (Product # A-21135, 1:2000 dilution) in 0.1% BSA in PBS for 1 hour at room temperature, was used for detection of beta-III-Tubulin (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 20X magnification in CellInsight CX7 LZR High-Content Screening (HCS) Platform (Product # CX7A1110LED).

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108 References

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Synaptopodin-2 Isoforms Have Specific Binding Partners and Display Distinct, Muscle Cell Type-Specific Expression Patterns. Cells (2023)

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