

Goat anti-Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor 594

Product Details	
Size	1 mg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotope	Goat / IgG
Class	Polyclonal
Type	Secondary Antibody
Conjugate	Alexa Fluor® 594
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_2534073

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1-10 µg/mL	1 Publication
Immunocytochemistry (ICC)	1-10 µg/mL	36 Publications
Immunofluorescence (IF)	1-10 µg/mL	-
Immunohistochemistry (IHC)	Assay Dependent	20 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	3 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	7 Publications
Miscellaneous PubMed (Misc)	-	229 Publications

Product Specific Information

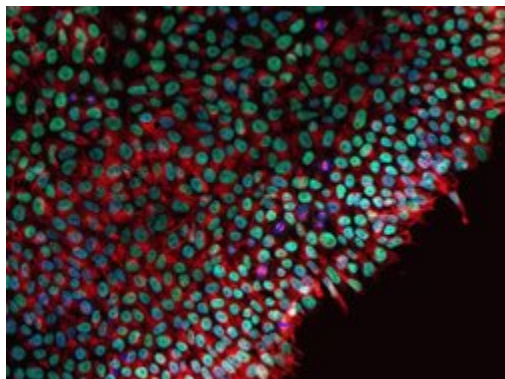
To minimize cross-reactivity, these goat anti-mouse IgG whole antibodies have been cross-adsorbed against human IgG and human serum prior to conjugation. Cross-adsorption or pre-adsorption is a purification step to increase specificity of the antibody resulting in higher sensitivity and less background staining. The secondary antibody solution is passed through a column matrix containing immobilized serum proteins from potentially cross-reactive species. Only the nonspecific-binding secondary antibodies are captured in the column, and the highly specific secondaries flow through. The benefits of this extra step are apparent in multiplexing/multicolor-staining experiments (e.g., flow cytometry) where there is potential cross-reactivity with other primary antibodies or in tissue/cell fluorescent staining experiments where there may be the presence of endogenous immunoglobulins.

Alexa Fluor dyes are among the most trusted fluorescent dyes available today. Invitrogen™ Alexa Fluor 594 dye is a bright, red-fluorescent dye with excitation ideally suited to the 594 nm laser line. For stable signal generation in imaging and flow cytometry,

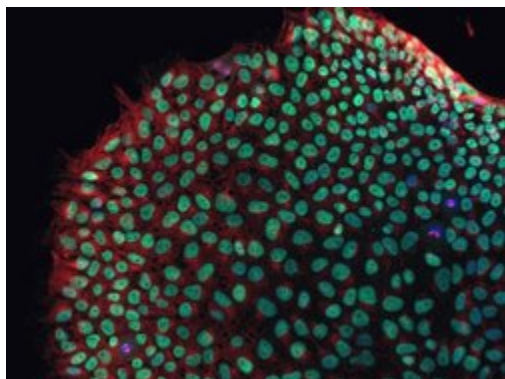
Alexa Fluor 594 dye is pH-insensitive over a wide molar range. Probes with high fluorescence quantum yield and high photostability allow detection of low-abundance biological structures with great sensitivity. Alexa Fluor 594 dye molecules can be attached to proteins at high molar ratios without significant self-quenching, enabling brighter conjugates and more sensitive detection. The degree of labeling for each conjugate is typically 2-8 fluorophore molecules per IgG molecule; the exact degree of labeling is indicated on the certificate of analysis for each product lot.

Using conjugate solutions: Centrifuge the protein conjugate solution briefly in a microcentrifuge before use; add only the supernatant to the experiment. This step will help eliminate any protein aggregates that may have formed during storage, thereby reducing nonspecific background staining. Because staining protocols vary with application, the appropriate dilution of antibody should be determined empirically. For the fluorophore-labeled antibodies a final concentration of 1-10 µg/mL should be satisfactory for most immunohistochemistry and flow cytometry applications.

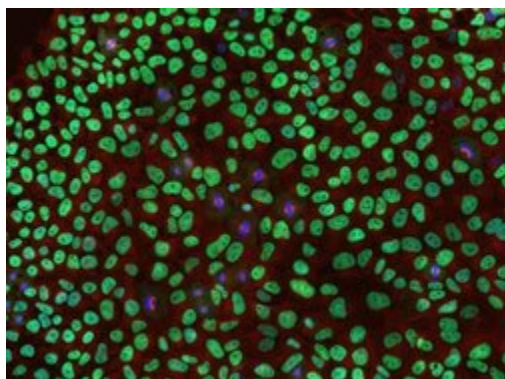
Product Images For Goat anti-Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor 594



Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody (A-11005) in IF
Human iPSC Staining Human iPSCs were cultured on glass slides under feeder-free conditions in StemPro® hESC Medium (Product # A1000701). Cells were fixed and permeated with the Image-iT® Fixation/Permeabilization Kit (Product # R37602). Oct4 (green) expression was visualized using anti-Oct4 primary Ab and Alexa Fluor® 488 secondary Ab (Product # A-11034). Tubulin (red) expression was visualized using anti-tubulin primary Ab (Product # 32-2600) and Alexa Fluor® 594 secondary Ab (Product # A-11005). Nuclei (blue) were labeled with NucBlue™ Fixed Cell Stain (Product # R37606). Images were collected on the FLoid™ Cell Imaging Station (Product # 4471136).



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Immunocytochemistry (36)

Biological procedures online

Effective Visualization and Easy Tracking of Extracellular Vesicles in Glioma Cells.

"A-11005 was used in Immunocytochemistry-immunofluorescence to report a new method developed by us for visualizing EVs using simple immune-fluorescence based technique, wherein the isolated EVs can be stained with fluorescently tagged antibodies to proteins present in EVs."

Authors: Mondal A,Ashiq KA,Phulpagar P,Singh DK,Shiras A

Species
Mouse
Not Applicable

Dilution
1:100
1:100

Year
2020

Frontiers in medicine

Human-Induced Pluripotent Stem Cells Manufactured Using a Current Good Manufacturing Practice-Compliant Process Differentiate Into Clinically Relevant Cells From Three Germ Layers.

"A-11005 was used in Immunocytochemistry to show that our iPSC manufacturing process and cell culture system is not biased toward a specific lineage."

Authors: Shafa M,Yang F,Fellner T,Rao MS,Baghbaderani BA

Species
Mouse
Not Applicable

Dilution
1:1000
1:1000

Year
2020

[View more ICC references on thermofisher.com](#)

Miscellaneous PubMed (229)

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Dilution
1:100
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Year
2020

Frontiers in pharmacology

Polygalae Radix Extract Prevents Axonal Degeneration and Memory Deficits in a Transgenic Mouse Model of Alzheimer's Disease.

"A-11005 was used in Immunohistochemistry to demonstrate the preventive effects of Polygalae Radix against memory deficits in transgenic AD mice and to show it being the first of its kind that inhibits endocytosis in neurons."

Authors: Kuboyama T,Hirotsu K,Arai T,Yamasaki H,Tohda C

Species
Mouse
Not Applicable

Dilution
1:400
1:400

Year
2020

[View more Misc references on thermofisher.com](#)

More applications with references on thermofisher.com

IHC (20) IHC (P) (7) IHC (F) (3) Flow (1)

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