

Goat anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor 488

Product Details	
Size	1 mg
Species Reactivity	Rabbit
Host/Isotope	Goat / IgG
Class	Polyclonal
Type	Secondary Antibody
Conjugate	Alexa Fluor® 488
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_2576217

Applications	Tested	Dilution	Published
Immunohistochemistry (IHC)	-	1:500	15 Publications
Immunocytochemistry (ICC)	✓	1-10 µg/mL	22 Publications
Immunohistochemistry (Frozen) (IHC (F))	-		10 Publications
Immunohistochemistry - Free Floating (IHC (Free))	-		2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1:500	2 Publications
Miscellaneous PubMed (MISC)	-	1:500	468 Publications
Flow Cytometry (Flow)	✓	1-10 µg/mL	
Immunofluorescence (IF)	✓	1-10 µg/mL	

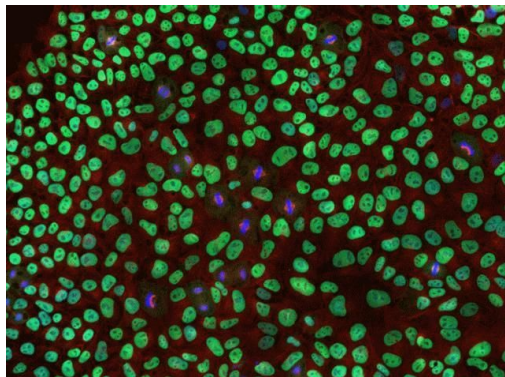
Product Specific Information

To minimize cross-reactivity, the goat anti-rabbit IgG whole antibodies have been highly cross-adsorbed against bovine IgG, goat IgG, mouse IgG, rat IgG, and human IgG. 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. Further passages through additional columns result in 'highly cross-adsorbed' preparations of secondary antibody. The benefits of these extra steps are apparent in multiplexing/multicolor-staining experiments where there is potential cross-reactivity with other primary antibodies or in tissue/cell

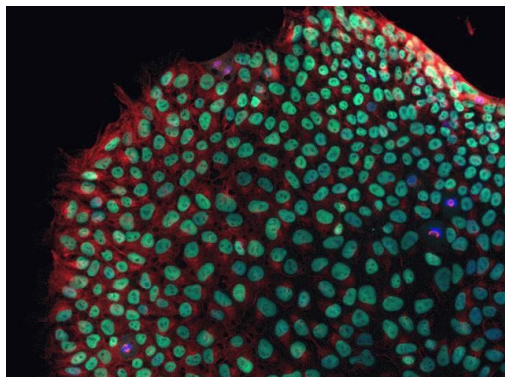
fluorescent staining experiments where there may be the presence of endogenous immunoglobulins.

Alexa Fluor dyes are among the most trusted fluorescent dyes available today. Invitrogen™ Alexa Fluor 488 dye is a bright, green-fluorescent dye with excitation ideally suited to the 488 nm laser line. For stable signal generation in imaging and flow cytometry, Alexa Fluor 488 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 488 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.

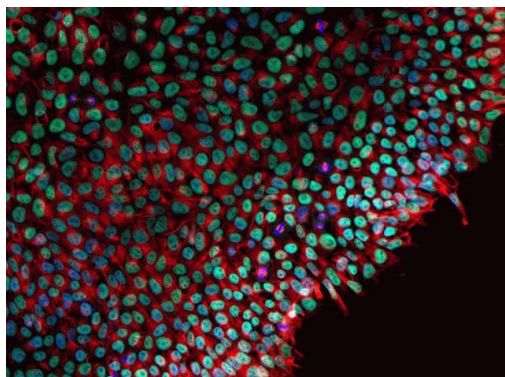
Using conjugate solutions: Centrifuge the protein conjugate solution briefly in a microcentrifuge before use; add only the supernatant to the experiment. This step will help eliminate any protein aggregates that may have formed during storage, thereby reducing nonspecific background staining. Because 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.



Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody (A-11034) in IF
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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Immunohistochemistry (15)

Frontiers in aging neuroscience

Increase of TREM2 during Aging of an Alzheimer's Disease Mouse Model Is Paralleled by Microglial Activation and Amyloidosis.

"A11034 was used in immunohistochemistry to quantify soluble triggering receptor expressed on myeloid cells 2 and amyloid levels in Alzheimer's disease mouse model brains"

Authors: Brendel M, Kleinberger G, Probst F, Jaworska A, Overhoff F, Blume T, Albert NL, Carlsen J, Lindner S, Gildehaus FJ, Ozmen L, Suárez-Calvet M, Bartenstein P, Baumann K, Ewers M, Herms J, Haass C, Rominger A

Species
Not Applicable

Dilution
1:500

Year
2018

PloS one

Acute death of astrocytes in blast-exposed rat organotypic hippocampal slice cultures.

"A11034 was used in immunohistochemistry to model the effects of blast traumatic brain injury in a rat hippocampal in vitro system"

Authors: Miller AP, Shah AS, Aperi BV, Kurpad SN, Stemper BD, Glavaski-Joksimovic A

Species
Not Applicable

Dilution
1:500

Year
2017

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

Immunocytochemistry (22)

Scientific reports

Immunoscreening of Plasmodium falciparum proteins expressed in a wheat germ cell-free system reveals a novel malaria vaccine candidate.

"A11034 was used in immunocytochemistry to establish LSA3 as a novel blood-stage vaccine candidate against Plasmodium falciparum"

Authors: Morita M, Takashima E, Ito D, Miura K, Thongkukiatkul A, Diouf A, Fairhurst RM, Diakite M, Long CA, Torii M, Tsuboi T

Species
Not Applicable

Dilution
1:500

Year
2017

Scientific reports

Bacterial secretion system skews the fate of Legionella-containing vacuoles towards LC3-associated phagocytosis.

"A11034 was used in immunocytochemistry to investigate how LC3-associated phagocytosis targets Legionella dumoffii to limit bacterial infection"

Authors: Hubber A, Kubori T, Coban C, Matsuzawa T, Ogawa M, Kawabata T, Yoshimori T, Nagai H

Species
Not Applicable

Dilution
Not Cited

Year
2017

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

More applications with references on thermofisher.com

IHC (F) (10)

IHC (Free) (2)

IHC (P) (2)

MISC (468)

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