



Goat anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 647

Product Details		
Size	1 mg	
Species Reactivity	Rabbit	
Host/Isotype	Goat / IgG	
Class	Polyclonal	
Туре	Secondary Antibody	
Conjugate	Alexa Fluor™ 647	
Excitation/Emission Max	650/671 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_2535813	

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	1-10 μg/mL	0 Publication
Immunohistochemistry (Paraffin) (IHC (P))	-	0 Publication
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	0 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	0 Publication
Immunohistochemistry - Free Floating (IHC (Free))	-	0 Publication
Immunocytochemistry (ICC/IF)	2 μg/mL	0 Publication
Flow Cytometry (Flow)	-	0 Publication
Dot blot (DB)	-	0 Publication
Immunomicroscopy (IM)	-	0 Publication
Miscellaneous PubMed (Misc)	-	0 Publication

Product Specific Information

To minimize cross-reactivity, these goat anti-rabbit IgG whole antibodies have been 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. 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 are may be the presence of endogenous immunoglobulins.

Alexa Fluor dyes are among the most trusted fluorescent dyes available today. Invitrogen™ Alexa Fluor 647 dye is a near-infrared-fluorescent dye with excitation ideally suited to the 647 nm laser line. For stable signal generation in imaging and flow cytometry, Alexa Fluor 647 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 647 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 μ g/mL should be satisfactory for most immunohistochemistry and flow cytometry applications.

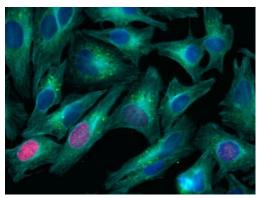
Product will be shipped at Room Temperature.

Product Images For Goat anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 647

Alpha tubulin antibody class Alexa Fluor 647 B Composite Isotype control No primary antibody d

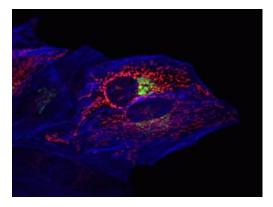
Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody (A-21245) in ICC/IF

Immunofluorescence analysis of Goat anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody Alexa Fluor® 647 conjugate was performed using HeLa cells stained with alpha Tubulin Rabbit Polyclonal Antibody (Product # PA516891) The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, blocked with 1% BSA for 1 hour and labeled with 2 µg/mL primary antibody for 3 hours at room temperature. Goat anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody Alexa Fluor® 647 conjugate (Product # A-21245) was used at a concentration of 2 µg/mL in phosphate buffered saline containing 0.2% BSA for 45 minutes at room temperature, for detection of alpha Tubulin in the cytoplasm (Panel a: red), Nuclei (Panel b: blue) were stained with DAPI in SlowFade® Gold Antifade Mountant (Product # S36938). F-actin was stained with Alexa Fluor® 488 Phalloidin (Product # A12379), 1:300) (Panel c. green). Panel d represents the composite image. No nonspecific staining was observed with the secondary antibody alone (panel f), or with an isotype control (panel e). The images were captured at 60X magnification.



Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody (A-21245) in ICC/IF

HeLa cells were treated with 30 μ M chloroquine and cultured overnight. The following day, the cells were fed 10 μ M EdU under regular growth conditions for one hour and then fixed and permeabilized. EdU was used to was visualize proliferating cells using The Click-iT® EdU Alexa Fluor® 488 Imaging kit (pink). Cells were counter stained with 0.5 μ g/mL anti-LC3B with a goat anti rabbit Alexa Fluor® 647 secondary (Green), mouse anti alpha tubulin with a goat anti mouse Alexa Fluor® 555 secondary (Cyan) and 1 μ g/mL Hoechst 33342 (Blue). Cells were imaged on a Molecular Devices ImageXpress High content imager.



Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody (A-21245) in ICC/IF

HeLa cells were incubated with Organelle Lights Mito-RFP (O36229) and Organelle Lights Golgi-GFP (O10098). Following fixation and permeabilization, cells were stained with Alexa Fluor® 350 phalloidin (Product # A22281) and anti-RFP rabbit polyclonal antibody (Product # R10367), the latter subsequently visualized with Alexa Fluor® 647 Goat Anti-Rabbit IgG antibody (Product # A-21245, red fluorescence) and imaged. No cross-reactivity is observed of the anti-RFP antibody with GFP (green-fluorescence, perinuclear region).

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□ 2107 References

Modeling vascular dynamics at the initial stage of endochondral ossification on a microfluidic chip using a human embryonic-stem-cell-derived organoid. Regen Ther (2025)

A visual cortical-lateral posterior thalamic nucleus circuit regulates depressive-like behaviors in male mice. Nat Commun (2025)

Nonenzymatic lysine D-lactylation induced by glyoxalase II substrate SLG dampens inflammatory immune responses. Cell Res (2025)

Noncanonical altPIDD1 protein: unveiling the true major translational output of the PIDD1 gene. Life Sci Alliance (2025)

The gE/gl complex is necessary for kinesin-1 recruitment during alphaherpesvirus egress from neurons. J Virol (2025)

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