

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

| Product Details         |  |
|-------------------------|--|
| Size                    | 1 mg                                       |
| Species Reactivity      | Goat                                       |
| Host/Isotype            | Donkey / IgG                               |
| Class                   | Polyclonal                                 |
| Type                    | 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_2535864                                 |

| Applications                                 | Tested Dilution | Publications  |
|--|-----------------|---------------|
| Western Blot (WB)                            | -               | 0 Publication |
| 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 |
| Immunocytochemistry (ICC/IF)                 | 1-10 µg/mL      | 0 Publication |
| Functional Assay (Functional)                | -               | 0 Publication |
| Miscellaneous PubMed (Misc)                  | -               | 0 Publication |

## Product Specific Information

To minimize cross-reactivity, these donkey anti-goat IgG (H+L) whole secondary antibodies have been affinity purified and cross-adsorbed against rabbit, rat, mouse, 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 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

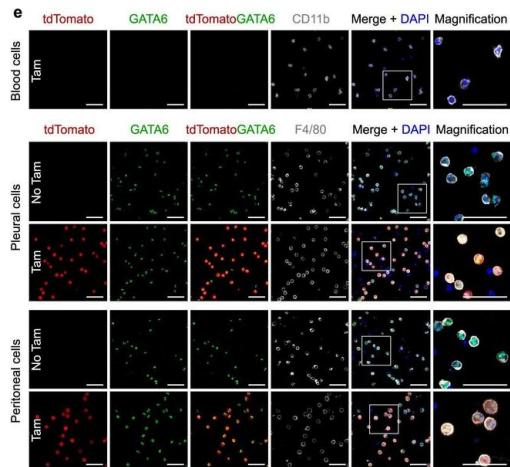
high photostability allow detection of low-abundance biological structures with great sensitivity. Alexa Fluor 647 dye molecules can be attached to proteins at high molar ratios without significant self-quenching, enabling brighter conjugates and more sensitive detection. The degree of labeling for each 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 µg/mL should be satisfactory for most immunohistochemistry and flow cytometry applications.

Product will be shipped at Room Temperature.

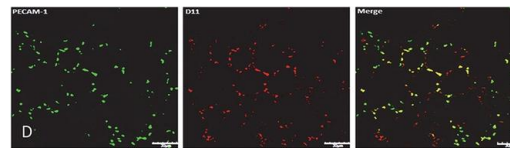
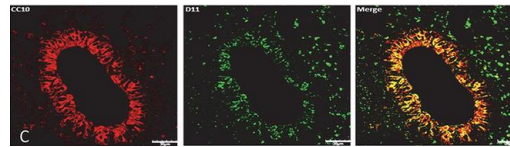
Goat IgG (H+L) Cross-Adsorbed Secondary Antibody (A-21447) in ICC/IF

Generation and characterization of a genetic system for specific targeting of cavity macrophages. a Schematic figure showing CD45-Dre mediates Stop cassette removal from Gata6-iCreER and places CreER directly under Gata6 promoter. After tamoxifen (Tam), Cre-loxP recombination labels cells by tdTomato. b Intersectional genetics marks CD45+GATA6+ cells as tdTomato+. c Schematic figure showing experimental design using cavity macrophage tracing tool CD45-Dre;Gata6-iCreER (G6Mø-CreER). d Flow cytometric analysis of the percentage of tdTomato+ cells in macrophages from blood, pleural, and peritoneal cavity with or without Tam. e Immunostaining for tdTomato, CD11b, GATA6, F4/80 on dissociated cells from blood, pleural, or peritoneal cavity. Boxed regions are magnified. f Quantification of the percentage of tdTomato+ cells in GATA6+ or F4/80+ macrophages. Data are the mean ± SD; n = 5 mice per group. g Quantification of the percentage of GATA6+ or F4/80+ macrophages in tdTomato+ cells. Data are the mean ± SD; n = 5 mice per group. h FACS showing the percentage of tdTomato+ cells expressing F4/80. i Whole-mount epifluorescence images and immunostaining for CD45 and tdTomato shows no resident tdTomato+ macrophages in visceral organs. Each image is representative of 5 individual biological samples. Scale bars, yellow, 1 mm; white, 100 μm. Source data are provided as a Source Data file. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/34001904>), licensed under a CC BY license.



Goat IgG (H+L) Cross-Adsorbed Secondary Antibody (A-21447) in ICC/IF

IsoLG-modified proteins are present within several lung cell populations in unstressed mice. Mouse lung tissue sections were immunostained with the following: (A) anti-SPC for Type 2 alveolar cells (Alexa 647 secondary, green false color), D11 ScFv (Rhodamine Red secondary); (B) anti T1 for Type 1 alveolar cells (Alexa 647 secondary, green false color), D11 ScFv (Rhodamine Red, secondary); (C) anti-CC10 for Club cells (Rhodamine Red secondary), D11 ScFv (Alexa 647 secondary, green false color); (D) anti-PECAM-1 for endothelial cells (Alexa 647 secondary, green false color), D11 ScFv (Rhodamine Red secondary). Images were acquired using confocal microscopy (60x magnification). The white bar represents 30 μm. Image collected and cropped by CiteAb from the following publication (<http://www.nature.com/articles/srep24919>), licensed under a CC BY license.



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Macrophages protect against sensory axon loss in peripheral neuropathy. *Nature* (2025)

Comparison of characteristics and immune responses between paired human nasal and bronchial epithelial organoids. *Cell Biosci* (2025)

Exploring the effects of adolescent social isolation stress on the serotonin system and ethanol-motivated behaviors. *Psychopharmacology (Berl)* (2025)

High-dose ascorbic acid synergizes with anti-PD1 therapy in non-small cell lung cancer in vitro and in vivo models. *Front Immunol* (2025)

Spatial transcriptomic clocks reveal cell proximity effects in brain ageing. *Nature* (2025)

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