



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

Product Details		
Size	1 mg	
Species Reactivity	Rabbit	
Host/Isotype	Goat / IgG	
Class	Polyclonal	
Туре	Secondary Antibody	
Conjugate	Alexa Fluor™ 488	
Excitation/Emission Max	499/520 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_2576217	

Applications	Tested Dilution	Publications
Western Blot (WB)	-	0 Publication
Immunohistochemistry (IHC)	-	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)	1-10 μg/mL	0 Publication
Flow Cytometry (Flow)	1-10 μg/mL	0 Publication
Immunomicroscopy (IM)	-	0 Publication
Miscellaneous PubMed (Misc)	-	0 Publication

Product Specific Information

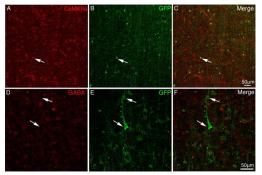
To minimize cross-reactivity, the goat anti-rabbit IgG whole antibodies have been highly cross-adsorbed against bovine IgG, goat IgG, mouse IgG, rat IgG, and human IgG. Cross-adsorption or pre-adsorption is a purification step to increase specificity of the antibody resulting in higher sensitivity and 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.

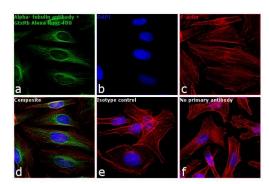
Product will be shipped at Room Temperature.

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



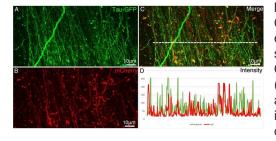
Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody (A-11034) in ICC/IF

Expression of Tau-GFP in excitatory neurons in macaque brain. To identify neuronal transduction of AAV2/9 constructed with CaMKII promoter, cortical sections of vIPFC were immunostained with anti-CaMKII (A-C) and anti-GABA (D-F) antibodies. (A-C) Tau-GFP-expressing neurons around the injection site were identified CaMKII positive. (D-F) Immunofluorescent staining with GABA antibody shows that the GFP-expressing neurons were negative with GABA. Arrowheads indicate Tau-GFP positive cell bodies. Image collected and cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/35593765), licensed under a CC BY license.



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

Immunofluorescence analysis of Goat anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody Alexa Fluor® 488 conjugate was performed using HeLa cells stained with alpha Tubulin Rabbit Polyclonal Antibody (Product # PA5-16891). 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 Rabbit primary antibody for 3 hours at room temperature. Goat anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody Alexa Fluor® 488 conjugate (Product # A-11034) was used at a concentration of 4 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: green). Nuclei (Panel b: blue) were stained with DAPI in SlowFade® Gold Antifade Mountant (Product # S36938). F-actin was stained with Rhodamine Phalloidin (Product # R415, 1:300) (Panel c: red). 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-11034) in ICC/IF

Comparison of two AAV constructs.AAV2/9 encoding Tau-GFP and AAV2/9 encoding mCherry were co-injected in the premotor cortex. Figures (A and B) show the axon fibers labeled by Tau-GFP and mCherry, respectively. (C) Colocalization of mCherry and GFP in the axonal fibers. (D) The intensity profiles (measured using ImageJ on 8-bit TIF images) along the dashed line (in C) in red and green channels. After normalization, a direct comparison indicates that the intensity of Tau-GFP was stronger than that of mCherry. Image collected and cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/35593765), licensed under a CC BY license.

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□ 6635 References

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Pyruvate dehydrogenase kinase 2 knockdown restores the ability of amyotrophic lateral sclerosis-linked SOD1G93A rat astrocytes to support motor neuron survival by increasing mitochondrial respiration. Glia (2024)

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The compound YK 3-237 promotes pig sperm capacitation-related events. Vet Res Commun (2024)

Identification of hippocampal area CA2 in hamster and vole brain. J Comp Neurol (2024)

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