

# Goat anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor 546

Product Details	
Size	1 mg
Species Reactivity	Rabbit
Published Species	Rabbit
Host/Isotype	Goat / IgG
Class	Polyclonal
Type	Secondary Antibody
Conjugate	Alexa Fluor® 546
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_2534093

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	23 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	1-10 µg/mL	2 Publications
Immunohistochemistry - Free Floating (IHC (Free))	-	1 Publication
Immunocytochemistry (ICC/IF)	4 µg/mL	14 Publications
Flow Cytometry (Flow)	1-10 µg/mL	-
Miscellaneous PubMed (Misc)	-	116 Publications

## Product Specific Information

To minimize cross-reactivity, these goat anti-rabbit IgG (H+L) whole secondary antibodies have been affinity purified and 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 may be the presence of endogenous immunoglobulins.

Alexa Fluor dyes are among the most trusted fluorescent dyes available today. Invitrogen™ Alexa Fluor 546 dye is a bright,

orange-fluorescent dye with excitation ideally suited to the 546 nm laser line. For stable signal generation in imaging and flow cytometry, Alexa Fluor 546 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 546 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.

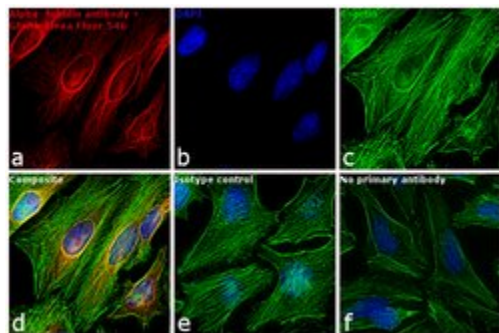
Using conjugate solutions: Centrifuge the protein conjugate solution briefly in a microcentrifuge before use; add only the supernatant to the experiment. This step will help eliminate any protein aggregates that may have formed during storage, thereby reducing nonspecific background staining. Because 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 546

### Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody (A-11035) in ICC /IF

Immunofluorescence analysis of Goat anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody Alexa Fluor® 546 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® 546 conjugate (Product # A-11035) 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: 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-11035) in IHC (F)

Immunofluorescent analysis of Phospho-RAD17 pSer646 showing staining in the nucleus of HCT116 cells. HCT116 cells were fixed in 4% paraformaldehyde at RT for 15 min and stained using a Phospho-RAD17 pSer646 polyclonal antibody (Product # PA5-34970) diluted at 1:500. Blue: Hoechst 33342 staining. Scale bar = 10 µm.



Immunohistochemistry (23)

<p>The European journal of neuroscience</p> <p><b>Subpopulations of vomeronasal sensory neurons with coordinated coexpression of type 2 vomeronasal receptor genes are differentially dependent on Vmn2r1.</b></p> <p>"A-11035 was used in Immunohistochemistry to generate two mouse strains carrying a knockout mutation in Vmn2r1 by gene targeting in embryonic stem cells."</p> <p>Authors: Akiyoshi S,Ishii T,Bai Z,Mombaerts P</p>	<p><b>Species</b> Rabbit Not Applicable</p> <p><b>Dilution</b> 1:1000 1:1000</p> <p><b>Year</b> 2018</p>
<p>Cell death and differentiation</p> <p><b>The cJUN NH<sub>2</sub>-terminal kinase (JNK) pathway contributes to mouse mammary gland remodeling during involution.</b></p> <p>"A-11035 was used in Immunohistochemistry to study the role of JUN NH2-terminal kinase in mammary gland involution post lactation."</p> <p>Authors: Girnius N,Edwards YJK,Davis RJ</p>	<p><b>Species</b> Rabbit Not Applicable</p> <p><b>Dilution</b> Not Cited Not Cited</p> <p><b>Year</b> 2018</p>

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

Immunohistochemistry (Paraffin) (2)

<p>PloS one</p> <p><b>Markers of epithelial to mesenchymal transition in association with survival in head and neck squamous cell carcinoma (HNSCC).</b></p> <p>"A-11035 was used in immunohistochemistry - paraffin section to analyze survival markers found in head and neck squamous cell carcinoma from the epithelial to mesenchymal transition phase"</p> <p>Authors: Pectasides E,Rampias T,Sasaki C,Perisanidis C,Kouloulas V,Burtneess B,Zaramboukas T,Rimm D,Fountzilias G,Psyrris A</p>	<p><b>Species</b> Not Applicable</p> <p><b>Dilution</b> 1:100</p> <p><b>Year</b> 2015</p>
<p>The Journal of clinical investigation</p> <p><b>Guanine nucleotide exchange factor RABGEF1 regulates keratinocyte-intrinsic signaling to maintain skin homeostasis.</b></p> <p>"A11035 was used in immunohistochemistry - paraffin section to show that deletion of the gene encoding RAB guanine nucleotide exchange factor 1 in keratinocytes severely impairs epidermal barrier function in mice"</p> <p>Authors: Marichal T,Gaudenzio N,El Abbas S,Sibilano R,Zurek O,Starkl P,Reber LL,Pirottin D,Kim J,Chambon P,Roers A,Antoine N,Kawakami Y,Kawakami T,Bureau F,Tam SY,Tsai M,Galli SJ</p>	<p><b>Species</b> Not Applicable</p> <p><b>Dilution</b> 1:200</p> <p><b>Year</b> 2016</p>

More applications with references on thermofisher.com

- IHC (F) (2)
- IHC (Free) (1)
- ICC/IF (14)
- Misc (116)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.