

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

Product Details	
Size	500 µg
Species Reactivity	Hamster
Host/Isotype	Goat / 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, DO NOT FREEZE!
RRID	AB_2925785

Applications	Tested Dilution	Publications
Western Blot (WB)	2 µg/mL	-
Immunohistochemistry (IHC)	Assay-dependent	-
Immunocytochemistry (ICC/IF)	1-4 µg/mL	-
Flow Cytometry (Flow)	1-4 µg/mL	-

## Product Specific Information

This antibody specifically detects Syrian hamster IgG and shows negligible reactivity to Armenian hamster IgG as tested by ELISA and immunofluorescence.

This goat anti-syrian hamster IgG (H+L) whole secondary antibody has been affinity-purified and shows minimum cross-reactivity to bovine, horse, human, mouse, rabbit, rat serum proteins. This antibody specifically detects Syrian hamster IgG and shows negligible reactivity to Armenian hamster 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 secondary antibodies 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.

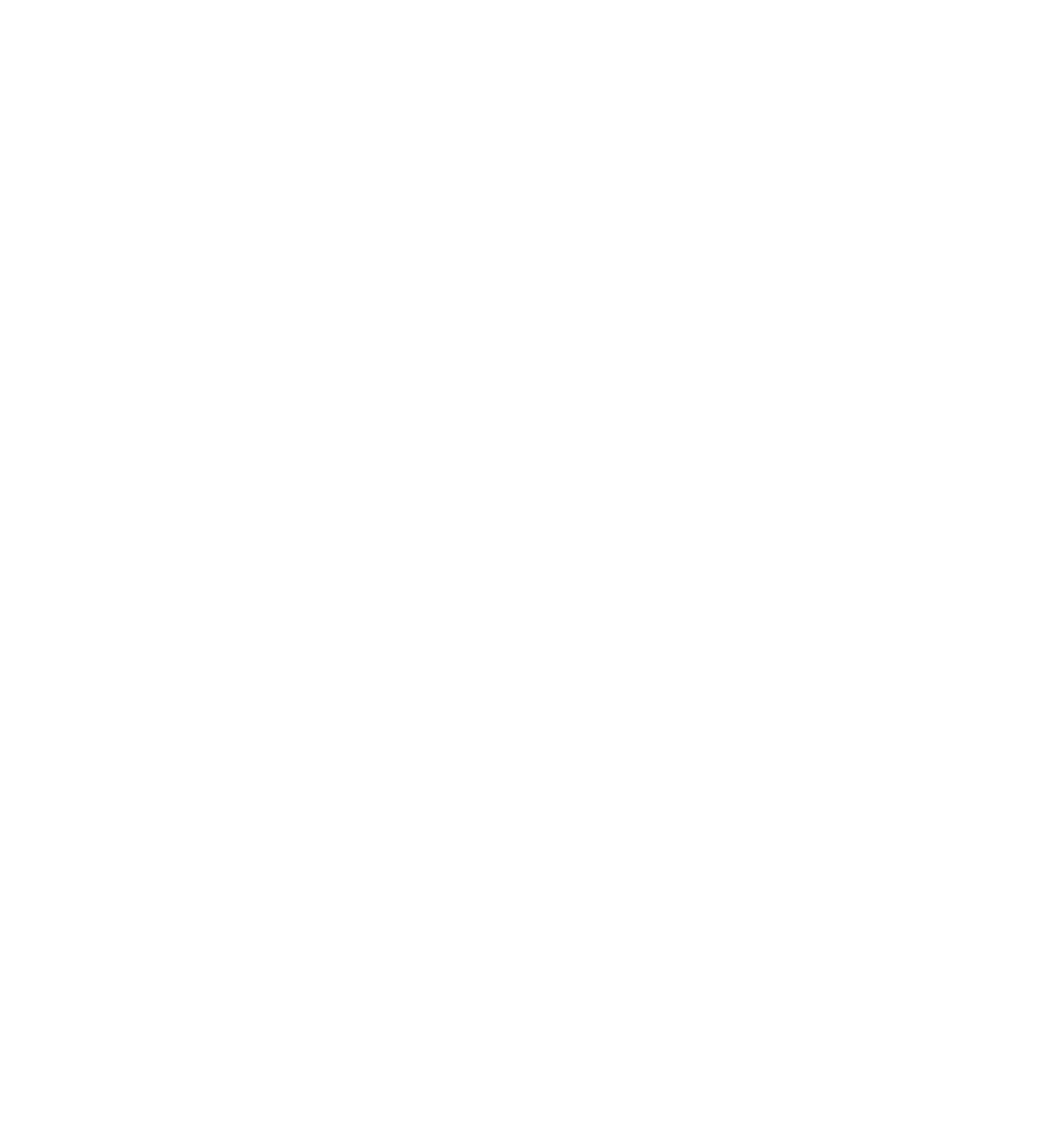
Alexa Fluor dyes are among the most trusted fluorescent dyes available today. Invitrogen™ Alexa Fluor 647 dye is a near-infrared-fluorescent dye with excitation ideally suited to the 647 nm laser line. For stable signal generation in imaging and flow cytometry, Alexa Fluor 647 dye is pH-insensitive over 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

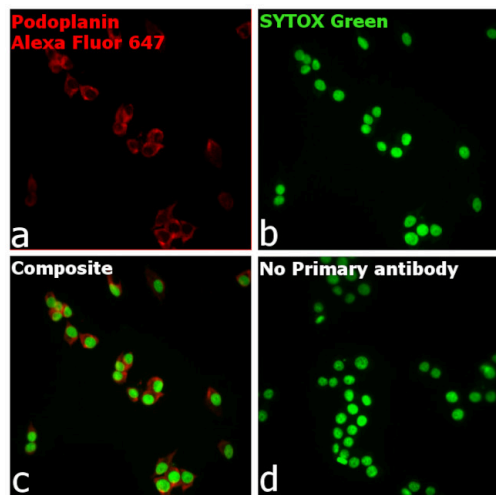
sensitive detection. The degree of labeling for each conjugate is typically 2-8 fluorophore molecules per IgG molecule; the exact degree of labeling is indicated on the certificate of analysis for each product lot.

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.

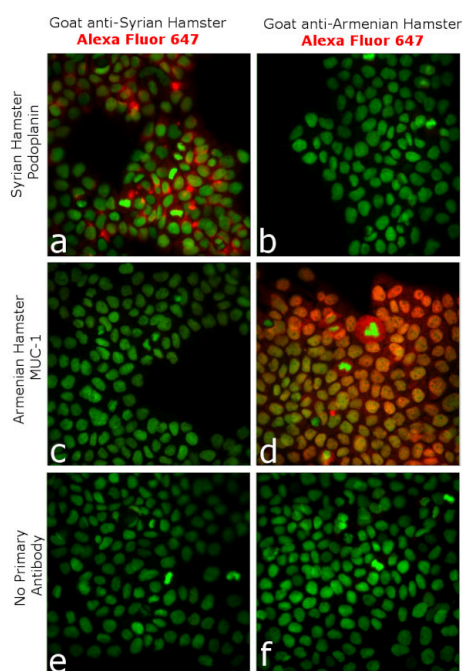
**Product Images For Goat anti-Syrian Hamster IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 647**





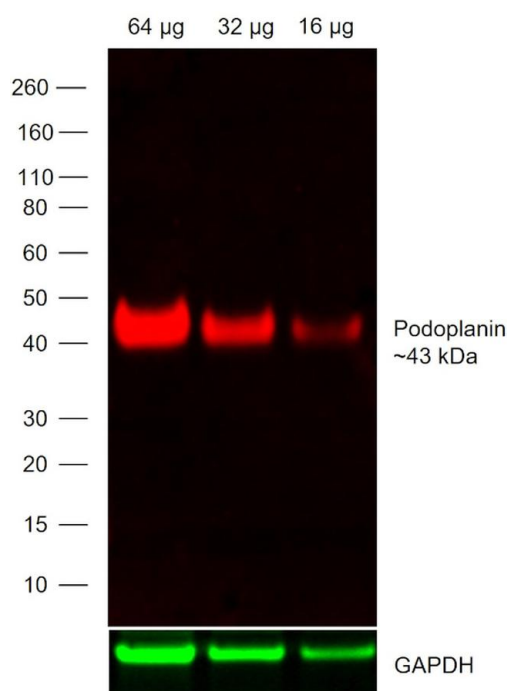
### Syrian Hamster IgG (H+L) Highly Cross-Adsorbed Secondary Antibody (A78962) in ICC/IF

Immunofluorescence analysis of Goat anti-Syrian Hamster IgG (H+L) Highly Cross Adsorbed Secondary Antibody, Alexa Fluor™ 647 (Product # A78962, 1:1,000 dilution) was performed on fixed RAW 264.7 cells stained with Syrian Hamster Podoplanin Monoclonal Antibody (Product # 14-5381-85, 1:100 dilution). Panel a) shows representative cells that were stained for detection and localization of Podoplanin protein, Panel b) is stained for nuclei using SYTOX™ Green Nucleic Acid Stain (Product # S7020, 1:10,000 dilution). Panel c) is a composite image of Panels a and b clearly demonstrating specific detection of Podoplanin Monoclonal Antibody in the cytoplasm by Goat anti-Syrian Hamster IgG (H+L) Highly Cross Adsorbed Secondary Antibody, Alexa Fluor™ 647. Panel d) represents control cells with no primary antibody to assess the background. The images were captured at 40X magnification using CX7 LZR HCS imaging platform.



### Syrian Hamster IgG (H+L) Highly Cross-Adsorbed Secondary Antibody (A78962)

Secondary antibody specificity was demonstrated by testing for cross-reactivity in immunofluorescence. The figure shows that Goat anti-Syrian Hamster IgG (H+L) Highly Cross Adsorbed Secondary Antibody, Alexa Fluor™ 647 (Product # A78962) specifically detects the Syrian hamster primary antibody (panel a) with no cross-reactivity to the Armenian hamster primary antibody (panel c). Panels e) and f) represent cells with no primary antibody to assess the background. The images were captured at 40X magnification using CX7 LZR HCS imaging platform. {RE}



### Syrian Hamster IgG (H+L) Highly Cross-Adsorbed Secondary Antibody (A78962) in WB

Western blot analysis of Goat anti-Syrian Hamster IgG (H+L) Highly Cross Adsorbed Secondary Antibody, Alexa Fluor™ 647 (Product # A78962) was performed by loading tissue extracts of Mouse Lung at two-fold dilutions from 64µg (Lane 1) to 16µg (Lane 3) which were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with Podoplanin Monoclonal Antibody (eBio8.1.1 (8.1.1)) (Product # 14-5381-82, 1:100 dilution) and detected by fluorescent imaging with Goat anti-Syrian Hamster IgG (H+L) Highly Cross Adsorbed Secondary Antibody, Alexa Fluor™ 647 (Product # A78962, 1:1,000 dilution) using the iBright FL 1500 (Product # A44115). GAPDH (Product #MA5-15738; 1:1,000) and its appropriate secondary antibody conjugated to Alexa Fluor™ 488 was used as a loading control.

---

View more figures on [thermofisher.com](https://thermofisher.com)

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.