

Goat anti-Human IgG Fc Recombinant Secondary Antibody, Alexa Fluor™ 647

Product Details

Size	250 µL
Species Reactivity	Human
Host/Isotype	Goat / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Secondary Antibody
Clone	3H8L9
Conjugate	Alexa Fluor™ 647
Excitation/Emission Max	650/671 nm
Immunogen	Purified Human IgG
Form	Liquid
Concentration	1.0 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4
Contains	5mM sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2925774

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	-
Immunocytochemistry (ICC/IF)	1:500-1:2,000	-
Flow Cytometry (Flow)	1:1,000	-

Product Specific Information

This Goat anti-Human IgG Fc Recombinant Secondary Antibody specifically detects human IgG Fc with no cross-reactivity to human IgA or IgM or various species immunoglobulins.

The sensitivity and specificity of each lot is confirmed using ELISA.

Recombinant antibodies are produced using specific genes that code for the desired antibodies. These genes are cloned into an expression vector and expressed in vitro. The advantages of recombinant antibodies include: better specificity, animal origin-free formulation, and lot-to-lot consistency.

It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Human IgG Fc Secondary Antibody (A55749) in ICC/IF

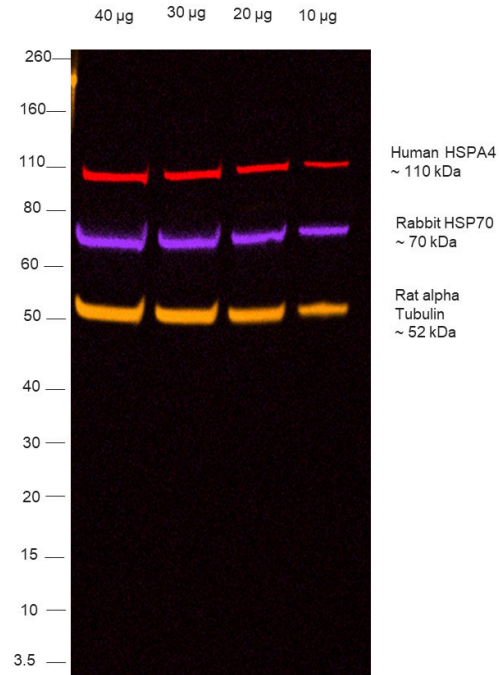
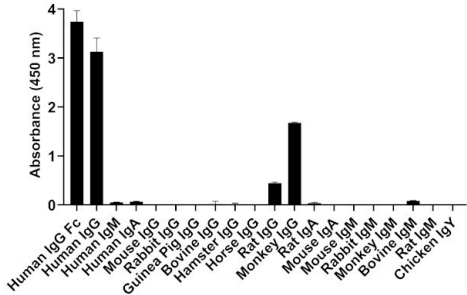
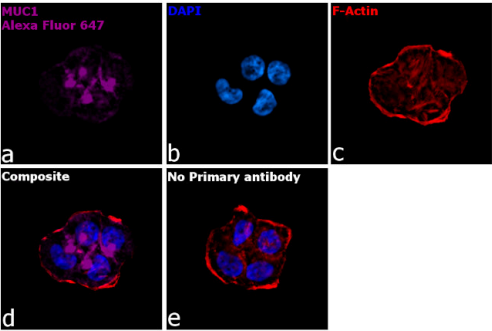
Immunofluorescence analysis of Goat anti-Human IgG Fc Recombinant Secondary Antibody, Alexa Fluor™ 647 (Product # A55749, 1:500 dilution) was performed on fixed and permeabilized T-47D cells stained with MUC1/ Gatipotuzumab Recombinant Human Monoclonal Antibody (Product # MA5-42157, 1:500 dilution). Panel a) shows representative cells that were stained for detection and localization of MUC1 protein, Panel b) is stained for nuclei using ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). Panel c) represents cytoskeletal F-actin staining using Rhodamine Phalloidin (Product # R415, 1:500). Panel d) is a composite image of Panels a, b and c clearly demonstrating specific detection of MUC1 Monoclonal Antibody in the cytoplasm by Goat anti-Human IgG Fc Recombinant Secondary Antibody, Alexa Fluor™ 647. Panel e) represents control cells with no primary antibody to assess the background. The images were captured at 60X magnification.

Human IgG Fc Secondary Antibody (A55749)

Antibody specificity was demonstrated by quantifying detection of the specific immunoglobulin of interest along with closely related immunoglobulins in ELISA. The assay was performed by coating different immunoglobulins at 25 ng/well. The coated proteins were incubated with Goat anti-Human IgG Fc Recombinant Secondary Antibody (Product # A55735) at a 1:1,000 dilution and detected using Chicken anti-Goat IgG (H+L) cross-Adsorbed Secondary Antibody, HRP (Product # A15969) at a 1:5,000 dilution. The plate was developed using TMB stabilized chromogen solution (Product # SB02). The plate was read at 450 nm with Thermo Scientific™ Varioskan™ LUX multimode microplate reader (Product # VLBLATD2). The antibody exhibits specificity to Human IgG Fc with no cross-reactivity to human IgA, IgM, or various species immunoglobulins. Moderate cross-reactivity was observed with Monkey IgG. {ARRAY}

Human IgG Fc Secondary Antibody (A55749) in WB

Western blot analysis of Goat anti-Human IgG Fc Recombinant Secondary Antibody, Alexa Fluor™ 647 (Product # A55749) was performed by loading 40 µg (Lane 1), 30 µg (Lane 2), 20 µg (Lane 3) and 10 µg (Lane 4) per well of HeLa whole cell extracts and 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 Human HSPA4 Monoclonal Antibody at a 1:1,000 dilution and detected by fluorescent imaging with Goat anti-Human IgG Fc Recombinant Secondary Antibody, Alexa Fluor™ 647 (Product # A55749) at a 1:1,000 dilution using the iBright FL 1500 (Product # A44115). This antibody can be used in multiplex fluorescent western blotting experiments as demonstrated in the figure using Rabbit HSP70 Polyclonal Antibody, Rat alpha Tubulin Monoclonal Antibody and its respective conjugated secondary antibody Donkey-anti-Rabbit Alexa Fluor™ 790 (Product # A11374) and Donkey-anti-rat Alexa Fluor™ 555 (Product # A78945).



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