

Goat anti-Human IgG Fc Recombinant Secondary Antibody

Product Details	
Size	250 µL
Species Reactivity	Human
Host/Isotype	Goat / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Secondary Antibody
Clone	3H8L9
Conjugate	Unconjugated
Immunogen	Purified Human IgG
Form	Liquid
Concentration	1.0 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2925760

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	-
Immunocytochemistry (ICC/IF)	1:500-1:1,000	-
ELISA (ELISA)	1:1,000-1:2,000	-
Peptide array (Array)	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.

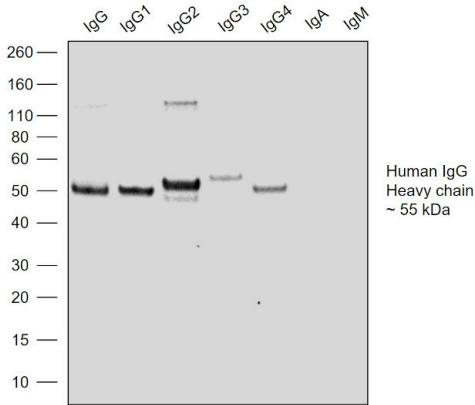
Recombinant antibodies are produced using specific genes that code for the desired antibodies. These genes are cloned into an expression vector and expressed in vitro. The advantages of recombinant antibodies include: better specificity, animal origin-free formulation, and lot-to-lot consistency.

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

Product Images For Goat anti-Human IgG Fc Recombinant Secondary Antibody

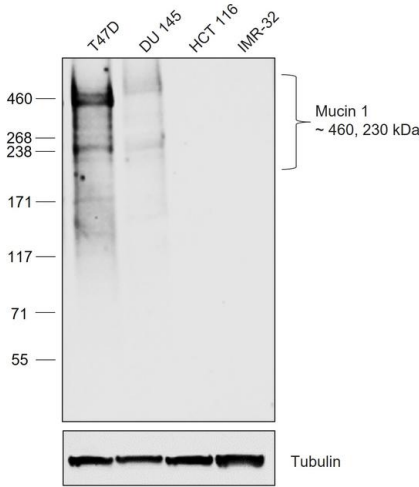
Human IgG Fc Secondary Antibody (A55735)

Western blot analysis of Goat anti-Human IgG Fc Recombinant Secondary Antibody (Product # A55735) was performed under reducing conditions by electrophoresis of 2 µg of purified human IgG (Lane 1), IgG1 (Lane 2) IgG2 (Lane 3), IgG3 (Lane 4), IgG4 (Lane 5), IgA (Lane 6) and IgM (Lane 7) using Novex® NuPAGE® 10 % Bis-Tris gel (Product # NP0301BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with Goat anti-Human IgG Fc Recombinant Secondary Antibody (Product # A55733, 1:1000 dilution) and detected with Chicken anti-Goat IgG (H+L) Cross-Adsorbed Secondary Antibody, HRP (Product # A15969, 1:5,000 dilution). Chemiluminescent detection was performed with Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005) using iBright FL 1500 (Product # A44115). Western blot analysis confirms that the antibody specifically detects bands corresponding to the heavy chain of total IgG and all four subclasses IgG1, IgG2, IgG3, and IgG4; does not detect the light chain or cross-react with human IgA and IgM antigens. {RE}



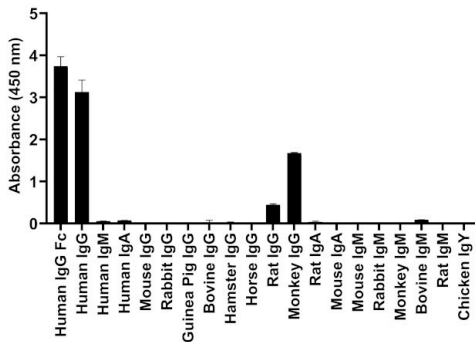
Human IgG Fc Secondary Antibody (A55735) in WB

Western blot analysis was performed on whole-cell extracts (30 µg lysate) of T-47D (Lane 1), DU 145 (Lane 2), HCT 116 (Lane 3) and IMR-32 (Lane 4). The blot was probed with Mucin1/ Gatipotuzumab Recombinant Human Monoclonal Antibody (Product # MA5-42157, 1:1,000 dilution) followed by Goat anti-Human IgG Fc Recombinant Secondary Antibody (Product # A55735, 1:1,000 dilution) and detected with Chicken anti-Goat IgG (H+L) Cross-Adsorbed Secondary Antibody, HRP (Product # A15969, 1:5,000 dilution). Chemiluminescent detection was performed with Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005) using the iBright FL 1500 (Product # A44115). Bands corresponding to Mucin 1 were observed at ~460 and ~230 kDa across the cell lines tested, except HCT 116 and IMR-32 which are reported to be negative for Mucin1 expression. (PMID: 9212228, 33194611)



Human IgG Fc Secondary Antibody (A55735)

Antibody specificity of Goat anti-Human IgG Fc Recombinant Secondary Antibody (Product # A55735) was demonstrated in ELISA by quantifying detection of the specific immunoglobulin of interest along with closely related immunoglobulins. 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 at 1 µg/mL and detected using Chicken anti-Goat IgG (H+L) cross -Adsorbed Secondary Antibody, HRP (Product # A15969, 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}



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