

Goat anti-Human IgG Fc Cross-Adsorbed Secondary Antibody, HRP

Product Details	
Size	1 mg
Species Reactivity	Human
Host/Isotype	Goat / IgG
Class	Polyclonal
Type	Secondary Antibody
Conjugate	HRP
Immunogen	Gamma Immunoglobulin Fc region
Form	Lyophilized
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 1% BSA
Contains	0.1% ProClin 150
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2535600

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:20,000	-
Immunohistochemistry (IHC)	1:500-1:20,000	-
ELISA (ELISA)	1:500-1:20,000	-

Product Specific Information

Rehydrate with 1.1 mL of deionized water and let stand 30 minutes at room temperature to dissolve. (Product has been overfilled to ensure complete recovery.) Centrifuge to remove any particulates. Prepare fresh working dilution daily. Store lyophilized material at 2-8 °C. For long term storage after reconstitution, dilute with 50% glycerol and store at -20 °C as a liquid. Based on Immunoelectrophoresis, no reactivity is observed to: non-immunoglobulin human serum immunoglobulins, light chains on all human immunoglobulins, human IgG F(ab)'2 fragment, serum proteins from bovine, horse, mouse, or rabbit.

Product Images For Goat anti-Human IgG Fc Cross-Adsorbed Secondary Antibody, HRP

Human IgG Fc Cross-Adsorbed Secondary Antibody (A18823) in WB

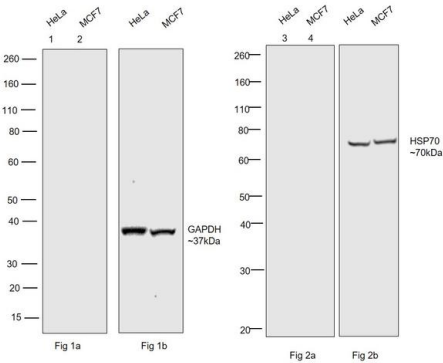
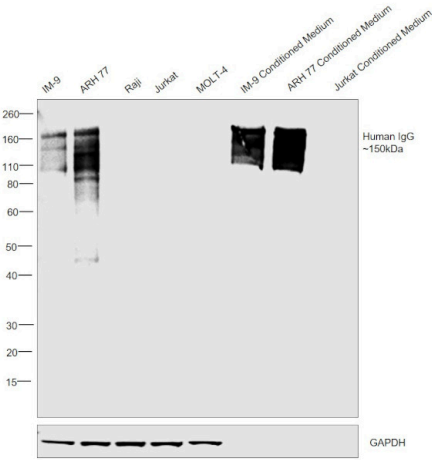
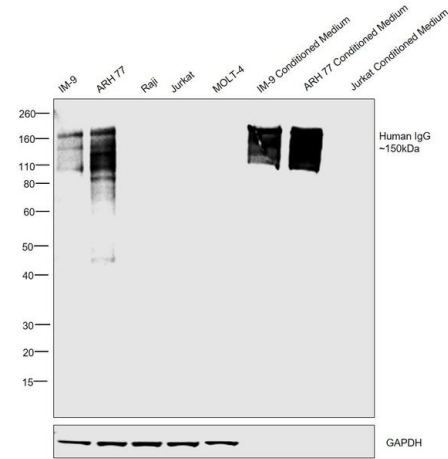
Western blot (non-reducing) was performed using Goat anti-Human IgG Fc Cross-Adsorbed Secondary Antibody, HRP (Product # A18823) and a 150 kDa band corresponding to Human IgG was observed in IM-9, ARH-77 and IM-9, ARH-77 conditioned medium (CM) but not in Raji, Jurkat, MOLT-4 and Jurkat CM which are known to have low expression. Whole cell lysate (30 µg) of IM-9 (Lane 1), ARH-77 (Lane 2), Raji (Lane 3), Jurkat (Lane 4), MOLT-4 (Lane 5), IM-9 CM (Lane 6), ARH-77 CM (Lane 7) and Jurkat CM (Lane 8) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were 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 Cross-Adsorbed Secondary Antibody, HRP (Product # A18823) and detected by chemiluminescence using iBrightFL1500 (Product # A44115). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).

Human IgG Fc Cross-Adsorbed Secondary Antibody (A18823)

Antibody specificity was demonstrated by detection of differential basal expression of IgG across cell lines owing to their inherent genetic constitution. Relative expression of Human IgG was observed in IM-9, ARH-77 and IM-9, ARH-77 conditioned medium (CM) but not in Raji, Jurkat, MOLT-4 and Jurkat CM using Goat anti-Human IgG Fc Cross-Adsorbed Secondary Antibody, HRP (Product # A18823) in Western Blot. IM-9 and ARH-77 express and secrete IgG whereas Raji is known to express IgM. MOLT-4 and Jurkat (T-cell lines) do not express immunoglobulins. (DOI:10.1002/eji.1830100305;10.3791/3573;10.1016/0022-1759(94)00286-6; PMID: 566614). {RE}

Human IgG Fc Cross-Adsorbed Secondary Antibody (A18823) in WB

Western blot analysis was performed using Goat anti-Human IgG Fc Cross-Adsorbed Secondary Antibody, HRP (Product # A18823). Whole cell extract (30 µg) of MCF7 (Lane 1, 2) and HeLa (Lane 3, 4) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with Mouse GAPDH Loading Control Monoclonal Antibody (Product # MA5-15738) (0.5 µg/mL) (Fig 1a,b) or Rabbit HSP70 polyclonal antibody (Product # PA5-28003) (Fig 2a,b). The blot was probed with Goat anti-Human IgG Fc Cross-Adsorbed Secondary Antibody, HRP (1:10000 dilution) and detected by chemiluminescence using iBrightFL1500 (Product # A44115) and Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005). Absence of detection of Mouse GAPDH (~37 kDa) and Rabbit HSP70 (~70 kDa) (Fig 1a,2a) confirms specificity of Goat anti-Human IgG Fc Cross-Adsorbed Secondary Antibody, HRP (Product # A18823). As control, the blots were reprobed with Goat anti-Mouse IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:20000 dilution) (Fig 1b) or Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:20000 dilution) (Fig 2b).



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25 References

Three doses of COVID-19 mRNA vaccine induce class-switched antibody responses in inflammatory arthritis patients on immunomodulatory therapies. *Front Immunol* (2023)

Application of machine learning models to identify serological predictors of COVID-19 severity and outcomes *Research Square* (2023)

Broadly neutralizing humanized SARS-CoV-2 antibody binds to a conserved epitope on Spike and provides antiviral protection through inhalation-based delivery in non-human primates. *PLoS Pathog* (2023)

Preclinical Evaluation of ON203, A Novel Bioengineered mAb Targeting Oxidized Macrophage Migration Inhibitory Factor as an Anticancer Therapeutic. *Mol Cancer Ther* (2023)

Reduced control of SARS-CoV-2 infection is associated with lower mucosal antibody responses in pregnant women *medRxiv* (2023)

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