# Goat anti-Human IgG F(ab')2 Cross-Adsorbed Secondary Antibody, HRP

| Product Details | |
|---|---|
| Size | 1.5 mL |
| Species Reactivity | Human |
| Host/Isotype | Goat / IgG |
| Class | Polyclonal |
| Type | Secondary Antibody |
| Conjugate | HRP |
| Form | Lyophilized |
| Concentration | 0.8 mg/mL |
| Purification | Antigen affinity chromatography |
| Storage buffer | PBS, pH 7.6, with 15mg/mL BSA |
| Contains | no preservative |
| Storage conditions | 4° C |
| RRID | AB_228273 |

| Applications | Tested Dilution | Publications |
|---|---|---|
| Western Blot (WB) | 1:10,000-1:200,000 | - |
| Immunohistochemistry (IHC) | 1:500-1:5,000 | - |
| Immunocytochemistry (ICC/IF) | 1:500-1:5,000 | - |
| ELISA (ELISA) | - | 0 Publication |

### Product Specific Information

Concentration may vary slightly from lot-to-lot, see lot-specific datasheet for exact concentration.

This antibody has been successfully used in Western blot, and ICC applications.

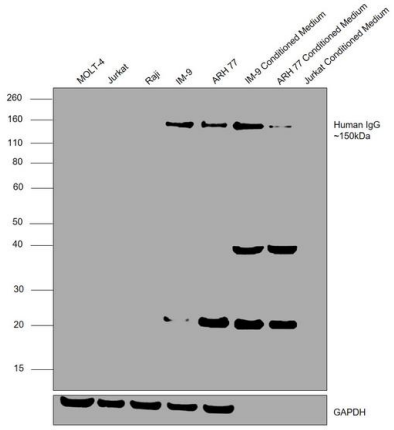
Antibody Specificity: This antibody reacts with the light chains on human IgG and with those light chains common to other human immunoglobulins. It does not react with the Fc portions of IgG. No antibody was detected against non-immunoglobulin serum proteins. The antibody has been tested by ELISA and/or solid-phase adsorbed to ensure minimal cross-reaction with bovine, horse, and mouse serum proteins. However, the antibody may cross-react with immunoglobulins from other species.

Restoration and Storage: Store product at 4°C until opened. Restore with 1.5 mL distilled water (0.8 mg/mL after restoration). Centrifuge product if it is not completely clear after standing for 1-2 hours at room temperature. To judge clarity, draw product into a pasteur pipette. Product may be stored for several weeks at 4°C as an undiluted liquid. After dilution, do not use for more than one day.

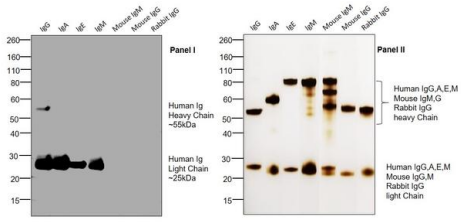
To extend the shelf-life of this product, add an equal volume of glycerol to make a final concentration of approximately 50% glycerol and store at -20°C.

Country of Origin: USA

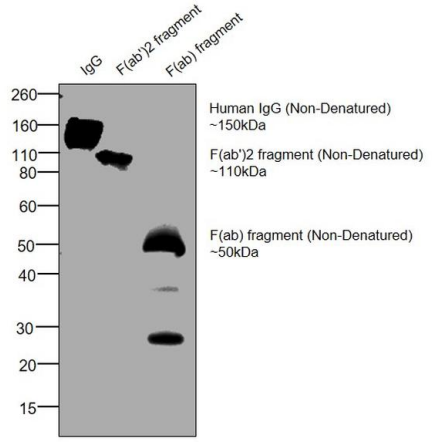
## Product Images For Goat anti-Human IgG F(ab')2 Cross-Adsorbed Secondary Antibody, HRP




**Human IgG F(ab')2 Cross-Adsorbed Secondary Antibody (31414) in WB**
Western blot (non-reducing) was performed using Goat anti-Human IgG F(ab)2 Cross-Adsorbed Secondary Antibody, HRP (Product # 31414) 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 MOLT-4 (Lane 1), Jurkat (Lane 2), Raji (Lane 3), IM-9 (Lane 4), ARH-77 (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 F(ab)2 Cross-Adsorbed Secondary Antibody, HRP (1 µg/mL) and detected by chemiluminiscence using the iBright FL1500 (Product # A44115). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005). 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).




**Human IgG F(ab')2 Cross-Adsorbed Secondary Antibody (31414) in WB**
Western blot was performed using Goat anti-Human IgG F(ab)2 Cross-Adsorbed Secondary Antibody, HRP (Product # 31414). 55 kDa and 25 kDa bands corresponding to denatured Human Ig heavy chain and light chain respectively were observed for IgG. Specific light chain reactivity (25 kDa) was observed for IgA, IgE and IgM. No reactivity was observed for Mouse IgM, Mouse IgG and Rabbit IgG (Panel I). Purified protein (100 ng) of Human IgG (Lane 1), IgA (Lane 2), IgE (Lane 3), IgM (Lane 4), Mouse IgM (Lane 5), Mouse IgG (Lane 6) and Rabbit IgG (Lane 7) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred to a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with Goat anti-Human IgG F(ab)2 Cross-Adsorbed Secondary Antibody, HRP (1 µg/mL) and detected by chemiluminiscence using the iBright FL1500 (Product # A44115). Silver staining was performed to establish equivalent loading of purified proteins using the Pierce™ Silver Stain Kit (Product # 24612) (Panel II).




**Human IgG F(ab')2 Cross-Adsorbed Secondary Antibody (31414) in WB**
Western blot (non-reducing) was performed using Goat anti-Human IgG F(ab)2 Cross-Adsorbed Secondary Antibody, HRP (Product # 31414) and 150 kDa, 110 kDa and 50 kDa bands corresponding to Human IgG, F(ab)2 (divalent) fragment and F(ab) (monovalent) fragment were observed. F(ab)2 (divalent) fragment was generated from purified Human IgG using Pierce™ F(ab)2 Preparation Kit (Product # 44988) Purified protein (100 ng) of Human IgG (Lane 1), F(ab)2 fragment (Lane 2) and F(ab) fragment (Lane 3) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred to a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with Goat anti-Human IgG F(ab)2 Cross-Adsorbed Secondary Antibody, HRP (1 µg /mL) and detected by chemiluminiscence using the iBright FL1500 (Product # A44115).

## 6 References

Partial RAG deficiency in humans induces dysregulated peripheral lymphocyte development and humoral tolerance defect with accumulation of T-bet+ B cells. Nat Immunol (2022)

Stromal interaction molecule 1 (STIM1) knock down attenuates invasion and proliferation and enhances the expression of thyroid-specific proteins in human follicular thyroid cancer cells. Cell Mol Life Sci (2021)

B7-H3×4-1BB bispecific antibody augments antitumor immunity by enhancing terminally differentiated CD8+ tumor-infiltrating lymphocytes. Sci Adv (2021)

Long-acting protein drugs for the treatment of ocular diseases. Nat Commun (2017)

Elevated Adiponectin Levels Suppress Perivascular and Aortic Inflammation and Prevent AngII-induced Advanced Abdominal Aortic Aneurysms. Sci Rep (2016)