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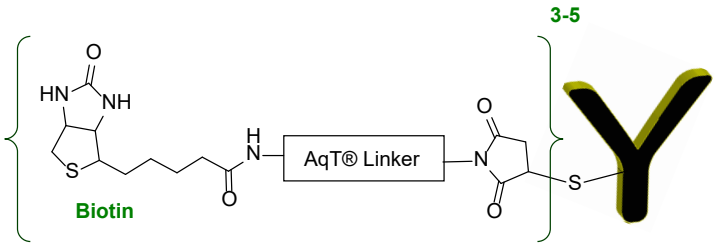
AqT® Biotin Goat Anti-Human IgG, F(ab')$_2$ Specific, Cross-Adsorbed

100 µg of conjugate per tube

Product Number: **CM86152**



Product Description

AqT® Biotin Goat Anti-Human IgG is a biotinylated polyclonal secondary antibody specific for the F(ab')$_2$ region of human IgG. The antibody is cross-adsorbed to minimize cross-reactivity with bovine, horse, and mouse serum proteins.

The product is site-specifically biotinylated at reduced Fc-region disulfide bonds using CellMosaic's proprietary super-hydrophilic AqT® linker. By positioning biotin away from the antigen-binding regions, this controlled labeling approach is designed to help preserve antibody-binding activity while providing consistent and accessible biotin placement.

Each antibody contains an average of 3–5 biotin molecules, supporting strong streptavidin-mediated signal amplification and sensitive, reproducible detection across a variety of immunoassay applications.

For more information about AqT® Biotinylated Secondary Antibodies, visit:
https://cellmosaic.com/biotinylated-secondary-antibodies/

The product is sold as 1 tube of 100 µg of conjugate. For bulk quantities and custom packaging requirements, please contact us for pricing and availability.

Product Information

- **Chemical Name**: AqT® Biotin Goat Anti-Human IgG, F(ab')$_2$ Specific, Cross-Adsorbed
- **Molecular Weight:** Approximately 162 kDa
- **Physical Appearance:** Clear solution in 1xPBS buffer with stabilizers
- **Storage Temperature:** -20 °C or below
- **Purity:** ≥95% monomer by SEC-HPLC (refer COA of each lot for actual value)
- **Average Biotin Loading:** 3–5 biotin molecules per antibody (refer COA of each lot for actual value)

Antibody Information

- **Target:** Human IgG
- **Immunogen:** Human IgG F(ab')$_2$ fragment
- **Species Reactivity:** Human
- **Cross-Adsorption**: Bovine, horse, and mouse serum proteins
- **Host Species:** Goat
- **Class/Isotype:** Goat IgG
- **Antibody Type:** Polyclonal
- **Country of Manufacture:** USA

Key Features

- Site-specific biotinylation with an average of 3–5 biotin molecules per antibody
- ≥95% monomeric purity by SEC-HPLC

- Protein content determined by UV/HPLC analysis
- Biotin incorporation measured using a biotin assay
- Cross-adsorbed to minimize cross-reactivity with bovine, horse, and mouse serum proteins
- **Advanced AqT® linker technology**: CellMosaic's proprietary, super-hydrophilic, water-soluble, and charge-neutral AqT® linker is designed to support aqueous solubility and minimize aggregation

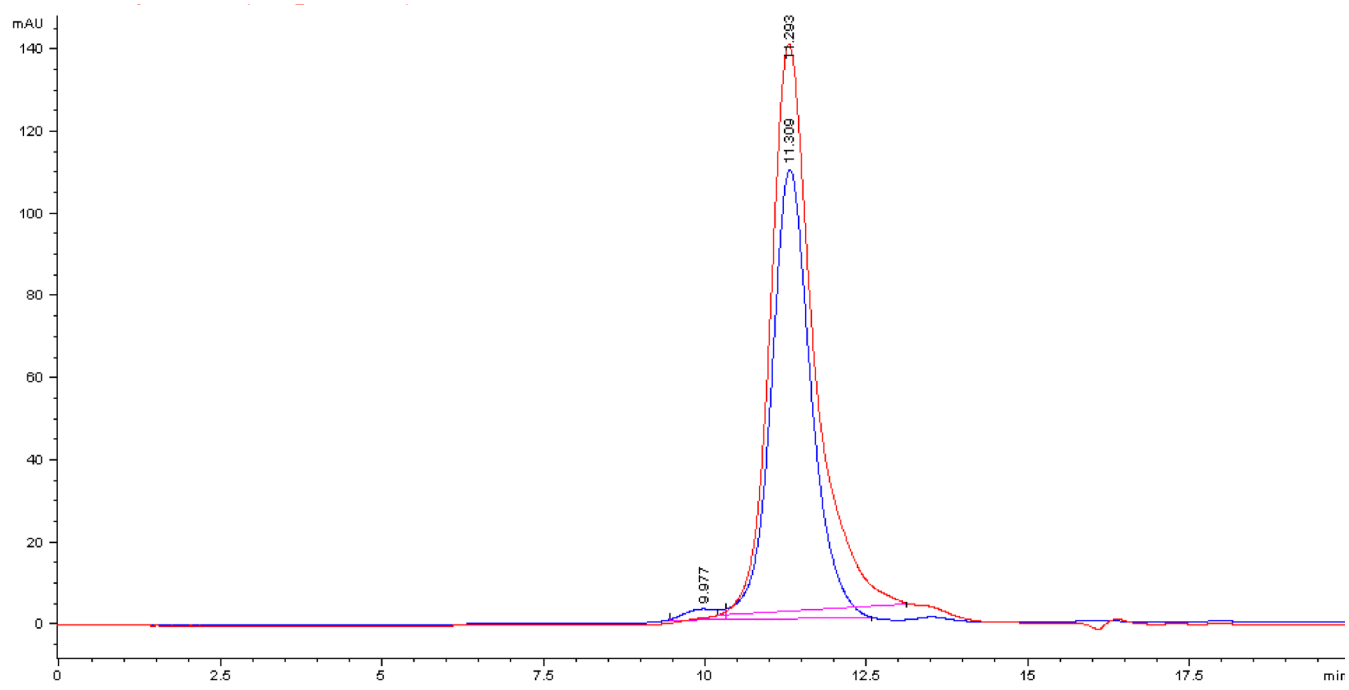
Applications

- Enzyme-linked immunosorbent assays (ELISA)
- Flow Cytometry, Immunohistochemistry (IHC)
- Immunocytochemistry (ICC)
- Western Blotting
- Immunoprecipitation (IP) and Pull-Down Assays
- Biosensor and Surface Immobilization, including SPR and BLI
- Cell Isolation and Magnetic Separation

Storage/Stability

Store the conjugate solution at −20 °C or below. Avoid repeated freeze–thaw cycles.

Figure 1. Representative size-exclusion HPLC profiles of F(ab')$_2$-specific goat anti-human IgG before labeling (blue trace; ~3% aggregation, indicated by the peak at 9.977 minutes) and after AqT® biotin labeling (red trace). The biotinylated antibody (Lot No. S359.S9.0811F; DOL: 4.1) demonstrated ≥99% monomeric purity in PBS, with no detectable aggregate peak.



Important Notes

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