

Rabbit IgG (Biotin Conjugated)

Catalog # ASR1113

Product Information

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| Description | RABBIT IgG whole molecule Biotin conjugated |
| Conjugate | Biotin |
| Physical State | Lyophilized |
| Host Isotype | IgG |
| Buffer | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| Species of Origin | Rabbit |
| Reconstitution Volume | 1.0 mL |
| Reconstitution Buffer | Restore with deionized water (or equivalent) |
| Stabilizer | 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free |
| Preservative | 0.01% (w/v) Sodium Azide |

Additional Information

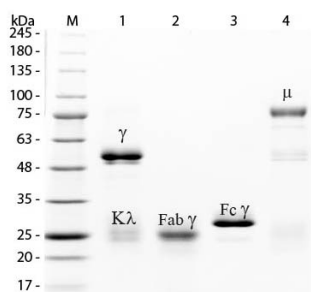
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| Shipping Condition | Ambient |
| Application Note | Rabbit IgG whole molecule Biotin conjugated can be utilized as a control reagent in both Western Blotting and ELISA format experiments. A streptavidin-conjugated reporter (ie. Streptavidin Peroxidase Conjugated) can be used for detection. |
| Purity | Rabbit IgG whole molecule Biotin conjugated was prepared from normal serum delipidation, salt fractionation, ion exchange chromatography followed by extensive dialysis against the buffer stated above. Rabbit IgG whole molecule Biotin conjugated assayed by immunoelectrophoresis resulted in a single precipitin arc against anti-biotin, anti-Rabbit IgG and anti-Rabbit Serum. |
| Storage Condition | Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. Rabbit IgG whole molecule Biotin conjugated is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |
| Precautions Note | This product is for research use only and is not intended for therapeutic or diagnostic applications. |

Background

Secreted as part of the adaptive immune response by plasma B cells, immunoglobulin G constitutes 75% of serum immunoglobulins. Immunoglobulin G binds to viruses, bacteria, as well as fungi and facilitates their destruction or neutralization via agglutination (and thereby immobilizing them), activation of the complement cascade, and opsonization for phagocytosis. The whole IgG molecule possesses both the F(c) region, recognized by high-affinity Fc receptor proteins, as well as the F(ab) region possessing the

epitope-recognition site. Both heavy and light chains of the antibody molecule are present. This Human IgG whole molecule is conjugated to biotin (Vitamin H), a small biomolecule that has a large affinity for avidin and streptavidin. Rabbit IgG whole molecule Biotin Conjugated is ideal for investigators in Immunology, Cancer, and Microbiology research.

Images



SDS-PAGE of Rabbit IgG Whole Molecule Biotin Conjugated (p/n ASR1113). Lane M: 3 μ L Opal Prestained Marker (p/n MB-210-0500). Lane 1: Reduced Rabbit IgG Whole Molecule Biotin Conjugated (p/n ASR1113). Lane 2: Reduced Rabbit IgG F(ab) Fragment (p/n 011-0105). Lane 3: Reduced Rabbit IgG F(c) Fragment (p/n 011-0103). Lane 4: Reduced Rabbit IgM Whole Molecule (p/n 011-0107). Load: 1 μ g for F(ab) and F(c); 1.2 μ g for IgG and IgM. Predicted/Observed size: IgG at 50 and 25 kDa; F(c) at 25 kDa; F(ab) at 25 kDa; IgM at 70 and 23 kDa. Observed F(c) Fragment migrates slightly higher.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.