Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 011-0602

Rabbit IgG Biotin conjugated

Overview

Description:	Rabbit IgG Whole Molecule Biotin Conjugated - 011-0602
Item No.:	011-0602
Size:	1 mg
Applications:	FC
Origin:	Rabbit

Product Details

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 compliment 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. Rabbit IgG whole molecule Biotin Conjugated is ideal for investigators in Immunology, Cancer, and Microbiology research.
Synonyms:	Rabbit IgG Biotin conjugation, Biotin conjugated Rabbit IgG whole molecule
Species of Origin:	Rabbit
Conjugate:	Biotin
Format:	IgG
Type:	Native Protein

Target Details

Purity/Specificity:	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.

Application Details

Suggested Applications:	FC (Based on references)
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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	User Optimized
WB:	User Optimized

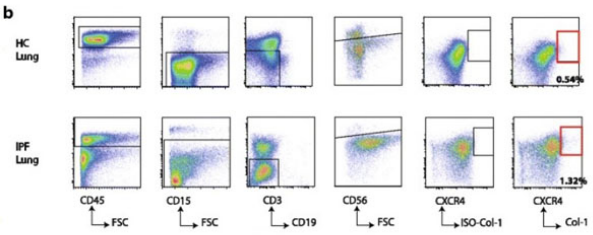
Formulation

Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

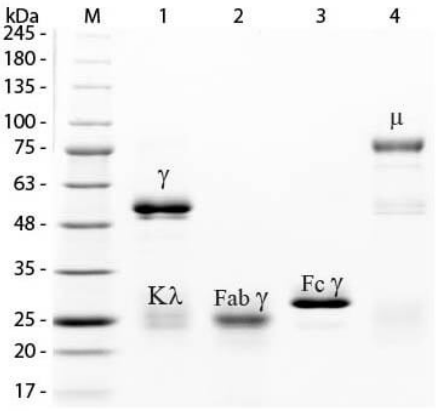
Shipping & Handling

Shipping Condition:	Ambient
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.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Flow Cytometry
Identification and characterization of lung fibrocytes in IPF lungs. b Representative gating strategy for lung fibrocytes (CD45+CD15−CD3−CD19−CD56−CXCR4+Col-1+-cells) in explanted IPF lungs (n = 3 bottom) and control lungs (HC, top) (n = 4). Single cell suspensions were thawed and alive viable cells were further analyzed. Lung fibrocytes are present in the CD45+ cell population. Contaminating and unwanted CD15+ neutrophils, CD3+ T cells, CD19+ B cells and CD56+ NK-cells were sequentially excluded. Isotype control for Col-1 was used to set the gate for Col-1+ cells. To control for non-specific labeling Rabbit IgG-Biotin conjugated (p/n 011–0602) was used. Fig. 2. PMID: 29747640.



SDS-PAGE
SDS-PAGE of Rabbit IgG Whole Molecule Rhodamine Conjugated (p/n 011-0002). Lane M: 3 µL Opal Prestained Marker (p/n MB-210-0500). Lane 1: Reduced Rabbit IgG Whole Molecule Rhodamine Conjugated (p/n 011-0002). 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 µg for F(ab) and F(c); 1.2 µg 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.

References

- Pyne A et al. Digest before Ingest: Early Recruitment of Membrane-bound DNaseX to Phagocytic Cups in Macrophages. *bioRxiv [Preprint].* (2026)
- Heukels et al. Fibrocytes are increased in lung and peripheral blood of patients with idiopathic pulmonary fibrosis. *Respiratory Research* (2018)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.