

**Rabbit IgG F(c) Biotin**  
**Catalog # ASR2901****Specification**

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**Rabbit IgG F(c) Biotin - Product Information**

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

**Rabbit IgG F(c) Biotin - Additional Information****Shipping Condition**

Ambient

**Purity**

RABBIT IgG F(c) fragment was prepared from normal serum delipidation, salt fractionation, ion exchange chromatography followed by papain digestion and extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-biotin, anti-Rabbit IgG, anti-Rabbit IgG F(c) and anti-Rabbit Serum. No reaction was observed against anti-Rabbit IgG F(ab')<sub>2</sub> or anti-Papain.

**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. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

**Precautions Note**

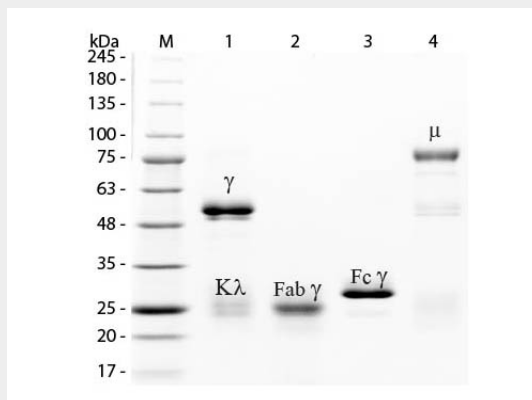
This product is for research use only and is not intended for therapeutic or diagnostic applications.

**Rabbit IgG F(c) Biotin - Protein Information****Rabbit IgG F(c) Biotin - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Rabbit IgG F(c) Biotin - Images



SDS-PAGE of Rabbit IgG F(c) Fragment Biotin Conjugated . Lane M: 3  $\mu$ L Opal Prestained Marker . Lane 1: Reduced Rabbit IgG Whole Molecule . Lane 2: Reduced Rabbit IgG F(ab) Fragment . Lane 3: Reduced Rabbit IgG F(c) Fragment Biotin Conjugated . Lane 4: Reduced Rabbit IgM Whole Molecule . Load: 1  $\mu$ g for F(ab) and F(c); 1.2  $\mu$ 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.

### Rabbit IgG F(c) Biotin - Background

Immunoglobulin G is the most abundant antibody isotype found in the circulation. IgG molecules are synthesized and secreted by plasma B cells. IgG antibodies are large molecules of about 150 kDa composed of four peptide chains. It contains two identical class  $\gamma$  heavy chains of about 50 kDa and two identical light chains of about 25 kDa, thus a tetrameric quaternary structure. An antibody digested by papain yields three fragments, two F(ab) fragments and one Fc fragment. An antibody digested by pepsin yields two fragments: a F(ab')<sub>2</sub> fragment and a pFc' fragment. The fragment crystallizable region (Fc region) is the tail region of an antibody that interacts with cell surface receptors called Fc receptors and some proteins of the complement system. This property allows antibodies to activate the immune system. Rabbit IgG F(c) is ideal for investigators involved in serum protein component research.