

## Datasheet for 610-4640

## Mouse IgG1 Antibody Biotin Conjugated

### Overview

<b>Description:</b>	Rabbit Anti-Mouse IgG1 (Gamma 1 chain) Antibody Biotin Conjugated - 610-4640
<b>Item No.:</b>	610-4640
<b>Size:</b>	1 mg
<b>Applications:</b>	ELISA, WB
<b>Reactivity:</b>	Mouse
<b>Host Species:</b>	Rabbit

### Product Details

<b>Background:</b>	Anti-Mouse IgG1 Biotin Antibody generated in rabbit detects reactivity to Mouse IgG1 (Gamma 1 chain). Secreted as part of the adaptive immune response by plasma B cells, immunoglobulin G constitutes 75% of serum immunoglobulins. IgG1 chain constitutes 66% of the IgG subclass and has a high affinity for binding to the Fc receptor of phagocytic cells. Secondary Antibodies are available in a variety of formats and conjugate types. When choosing a secondary antibody product, consideration must be given to species and immunoglobulin specificity, conjugate type, fragment and chain specificity, level of cross-reactivity, and host-species source and fragment composition.
<b>Synonyms:</b>	Rabbit Anti-Mouse IgG1 (Gamma 1 chain) Antibody biotin Conjugation, Rabbit Anti-Mouse IgG1 BAC Conjugated Antibody
<b>Host Species:</b>	Rabbit
<b>Specificity:</b>	IgG1
<b>Conjugate:</b>	Biotin
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG
<b>F/P Ratio:</b>	10-20

### Target Details

<b>Reactivity:</b>	Mouse
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<b>Immunogen:</b>	Mouse IgG1 heavy chain
<b>Purity/Specificity:</b>	Mouse IgG1 antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Mouse antigens coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Biotin, anti-Rabbit Serum, Mouse IgG and Mouse Serum. Specificity was confirmed by ELISA. Typically, less than 1% cross-reactivity was observed against other Mouse heavy chain isotypes.

## Application Details

<b>Tested Applications:</b>	ELISA, WB
<b>Application Note:</b>	Mouse IgG1 secondary antibody conjugated to Biotin is available in a variety of formats. Anti-Mouse IgG1 Biotin Antibody has been tested by ELISA and western blot and is suitable for ELISA, Immunohistochemistry western blotting as well as other anti IgG1 antibody based assays.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>ELISA:</b>	1:250,000
<b>IHC:</b>	1:500 - 1:3,000
<b>WB:</b>	1:1,000 - 1:5,000

## Formulation

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

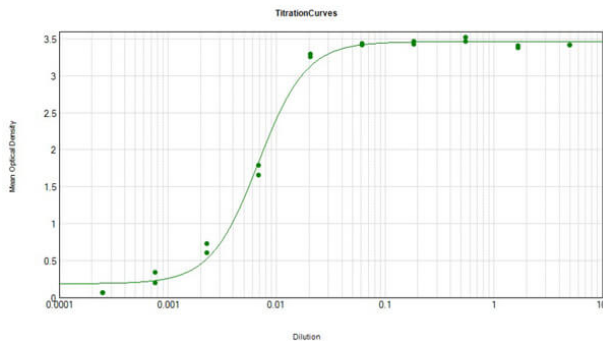
## Shipping & Handling

<b>Shipping Condition:</b>	Ambient
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**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.

**Expiration:** Expiration date is one (1) year from date of receipt.

## Images



### ELISA

ELISA Results of Rabbit Anti-Mouse IgG1 Antibody Biotin Conjugation tested against purified Mouse IgG1 Biotin. Each well was coated in duplicate with 1.0 µg of Mouse IgG1 (p/n 010-0140). The working dilution is 1:146,000. The starting dilution of antibody was 5µg/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using HRP Conjugate Stabilizer (p/n MB-076), Streptavidin-HRP conjugated (p/n S000-03) and TMB substrate (p/n TMBE-1000).

## 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.