

**Datasheet for 610-4607****Mouse IgM (mu chain) Antibody Biotin Conjugated****Overview**

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| <b>Description:</b>  | Rabbit Anti-Mouse IgM (mu chain) Antibody Biotin Conjugated - 610-4607 |
| <b>Item No.:</b>     | 610-4607                                                               |
| <b>Size:</b>         | 1.5 mg                                                                 |
| <b>Applications:</b> | ELISA                                                                  |
| <b>Reactivity:</b>   | Mouse                                                                  |
| <b>Host Species:</b> | Rabbit                                                                 |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Background:</b>   | Immunoglobulin M is the largest antibody isotype and the first to be secreted against an initial exposure to antigen. IgM is predominantly produced in the spleen. Formed from covalently linking 5 immunoglobulins together, the approximate molecular weight of IgM is 900kDa and possesses 10 binding sites (though due to the size of most antigens, not all sites are capable of binding at once). Due to this large size, IgM is typically isolated to the serum. |
| <b>Synonyms:</b>     | rabbit Anti-Mouse IgM (mu chain) Antibody Biotin Conjugated, rabbit Anti Mouse IgM mu chain Biotin Conjugated Antibody                                                                                                                                                                                                                                                                                                                                                  |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Specificity:</b>  | IgM $\mu$ chain                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Conjugate:</b>    | Biotin                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**Target Details**

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| <b>Reactivity:</b> | Mouse                    |
| <b>Immunogen:</b>  | Mouse IgM whole molecule |

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| <b>Purity/Specificity:</b> | This product was prepared from monospecific antiserum by immunoaffinity chromatography using Mouse IgM coupled to agarose beads followed by solid phase adsorption(s) to remove unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-biotin, anti-Rabbit Serum, Mouse IgM and Mouse Serum. No reactivity was observed against other mouse heavy or light chain proteins. |
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## Application Details

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| <b>Tested Applications:</b> | ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Application Note:</b>    | Anti-Mouse IgM Biotin Conjugated Antibody has been tested by ELISA and has been assayed against 1.0 ug of Mouse IgM in a standard capture ELISA using Peroxidase Conjugated Streptavidin #S000-03 and ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:20,000 to 1:80,000 of the reconstitution concentration is suggested for this product. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                                                                                                                                                                                     |
| <b>ELISA:</b>               | 1:20,000 - 1:100,000                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>IHC:</b>                 | 1:1,000 - 1:5,000                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>WB:</b>                  | 1:2,000 - 1:10,000                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Formulation

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| <b>Physical State:</b>        | Lyophilized                                                            |
| <b>Concentration:</b>         | 1.5 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)                           |

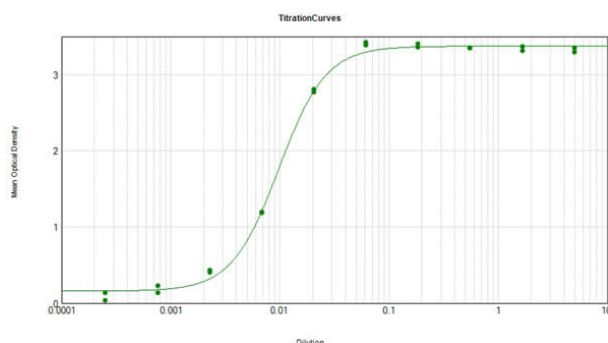
## Shipping & Handling

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| <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 IgM Antibody Biotin Conjugated tested against purified Mouse IgM Biotin. Each well was coated in duplicate with 1.0 µg of Mouse IgM (p/n 010-0107). 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) 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.