

**Datasheet for 617-106-007****Monkey IgM (mu chain) Antibody Biotin Conjugated****Overview**

|                      |                                                                          |
|----------------------|--------------------------------------------------------------------------|
| <b>Description:</b>  | Goat Anti-Monkey IgM (mu chain) Antibody Biotin Conjugated - 617-106-007 |
| <b>Item No.:</b>     | 617-106-007                                                              |
| <b>Size:</b>         | 1 mg                                                                     |
| <b>Applications:</b> | ELISA, WB                                                                |
| <b>Reactivity:</b>   | Monkey                                                                   |
| <b>Host Species:</b> | Goat                                                                     |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | Anti-Monkey IgM (mu chain) biotin conjugated antibody generated in goat detects specifically monkey IgM (mu chain). 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. Anti-Monkey IgM antibody is ideal for investigators in Immunology, Microbiology, and Cell Biology. |
| <b>Synonyms:</b>     | Goat Anti-Monkey IgM Antibody biotin Conjugation, Goat Anti-Monkey IgM biotin Conjugated Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Host Species:</b> | Goat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Specificity:</b>  | IgM $\mu$ chain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Conjugate:</b>    | Biotin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>F/P Ratio:</b>    | 10-20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

**Target Details**

|                    |        |
|--------------------|--------|
| <b>Reactivity:</b> | Monkey |
|--------------------|--------|

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen:</b>          | Monkey IgM whole molecule                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity/Specificity:</b> | This product was prepared from monospecific antiserum by immunoaffinity chromatography using Monkey IgM 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-Goat Serum, Monkey IgM and Monkey Serum. No reaction was observed against other monkey heavy or light chain proteins. |

## Application Details

|                             |                                                                                                                                                                                                                                                                                                                              |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b> | ELISA, WB                                                                                                                                                                                                                                                                                                                    |
| <b>Application Note:</b>    | Anti-Monkey IgG (mu chain) Biotin conjugated Antibody has been tested by ELISA and western blot and is suitable for immunoblotting (western or dot blot), ELISA, immunoperoxidase electron microscopy and immunohistochemistry as well as other peroxidase-antibody based enzymatic assays requiring lot-to-lot consistency. |
| <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 - 1:300,000                                                                                                                                                                                                                                                                                                         |
| <b>IHC:</b>                 | 1:1,000 - 1:5,000                                                                                                                                                                                                                                                                                                            |
| <b>WB:</b>                  | 1:2,000 - 1:10,000                                                                                                                                                                                                                                                                                                           |

## 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 |
|----------------------------|---------|

**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.

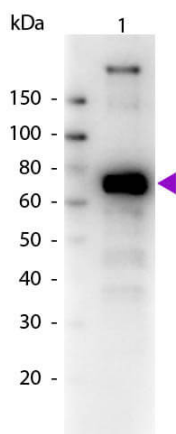
**Expiration:** Expiration date is one (1) year from date of receipt.

## Images

| Product          | Gt-a-Monkey IgG | Gt-a-Monkey IgA | Gt-a-Monkey IgM |
|------------------|-----------------|-----------------|-----------------|
| Rhesus Serum     | +               | +               | +               |
| Baboon Serum     | +               | +               | +               |
| Cynomolgus Serum | +               | +               | +               |
| Rhesus IgG       | +               |                 |                 |
| Human IgA        |                 | +               |                 |
| Human IgM        |                 |                 | +               |

### Diagram

This table displays additional reactivity among various species of serum and immunoglobulin. A (+) indicates antibody reactivity to the corresponding target.



### Western Blot

Western Blot of Biotin conjugated Goat Anti-Monkey IgM (mu chain) secondary antibody. Lane 1: Monkey IgM. Lane 2: None. Load: 50 ng per lane. Primary antibody: None. Secondary antibody: Biotin goat secondary antibody at 1:1,000 for 60 min at RT. Block: MB-070 for 30 min t RT. Predicted/Observed size: 72 kDa, 72 kDa for Monkey IgM. Other band(s): None.

## References

- Miller-Novak et al. Analysis of complement-mediated lysis of SIV and SIV-infected cells reveals sex differences in vaccine-induced immune responses in Rhesus macaques. *Journal of Virology* (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.