

## Datasheet for 610-4312

**Mouse IgG (gamma chain) Antibody Peroxidase Conjugated****Overview**

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|----------------------|-------------------------------------------------------------------------------|
| <b>Description:</b>  | Rabbit Anti-Mouse IgG (gamma chain) Antibody Peroxidase Conjugated - 610-4312 |
| <b>Item No.:</b>     | 610-4312                                                                      |
| <b>Size:</b>         | 1 mg                                                                          |
| <b>Applications:</b> | ELISA, Other, WB                                                              |
| <b>Reactivity:</b>   | Mouse                                                                         |
| <b>Host Species:</b> | Rabbit                                                                        |

**Product Details**

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| <b>Background:</b>   | Anti-Mouse IgG Peroxidase Antibody generated in rabbit detects reactivity to Mouse IgG gamma chain. 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 complement 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. IgG gamma chain of the antibody is the F(c) region. 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 IgG Antibody peroxidase conjugation, rabbit anti-Mouse IgG gamma HRP conjugated Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Specificity:</b>  | IgG (gamma chain)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Conjugate:</b>    | Peroxidase (HRP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>F/P Ratio:</b>    | 0.45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## Target Details

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| <b>Reactivity:</b>         | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Immunogen:</b>          | Mouse IgG gamma heavy chain                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity/Specificity:</b> | This product was prepared from monospecific antiserum by immunoaffinity chromatography using 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-Peroxidase, anti-Rabbit Serum, Mouse IgG and Mouse Serum. Specificity was confirmed by ELISA at less than 1% cross-reactivity against other mouse heavy or light chain isotypes. |

## Application Details

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| <b>Tested Applications:</b>    | ELISA                                                                                                                                                                                                                                                          |
| <b>Suggested Applications:</b> | Other, WB (Based on references)                                                                                                                                                                                                                                |
| <b>Application Note:</b>       | Anti-Mouse IgG Peroxidase Antibody has been tested by ELISA and is designed for ELISA, western blotting, and Immunohistochemistry. This product is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms. |
| <b>Assay Dilutions:</b>        | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                |
| <b>ELISA:</b>                  | 1:21,000                                                                                                                                                                                                                                                       |
| <b>IHC:</b>                    | 1:500 - 1:2,500                                                                                                                                                                                                                                                |
| <b>WB:</b>                     | 1:1,000 - 1:5,000                                                                                                                                                                                                                                              |

## Formulation

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|-------------------------------|------------------------------------------------------------------------|
| <b>Physical State:</b>        | Lyophilized                                                            |
| <b>Concentration:</b>         | 1 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) Gentamicin Sulfate. Do NOT add 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                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage Condition:</b>  | 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. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                                                                                                                           |

## References

- Poppenborg SM et al. Impact of anti-PEG IgM antibodies on the pharmacokinetics of pegylated asparaginase preparations in mice. *Eur J Pharm Sci.* (2016)
- Platt TL et al. Obesity, diabetes, and leptin resistance promote tau pathology in a mouse model of disease. *Neuroscience* (2016)
- Beckett TL et al. Postmortem Pittsburgh Compound B (PiB) binding increases with Alzheimer's disease progression. *Journal of Alzheimer's Disease : JAD* (2012)
- O'shannessy, DJ et al. Characterization of the human folate receptor alpha via novel antibody-based probes. *Oncotarget* (2011)
- McCall LI et al. Localization and induction of the A2 virulence factor in Leishmania: evidence that A2 is a stress response protein. *Mol Microbiol.* (2010)
- Beckett TL et al. Effects of nonsteroidal anti-inflammatory drugs on amyloid-beta pathology in mouse skeletal muscle. *Neurobiology of Disease* (2010)

## 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.