

**Datasheet for 610-4340****Mouse IgG1 Secondary Antibody Peroxidase Conjugated****Overview**

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| <b>Description:</b>  | Rabbit Anti-Mouse IgG1 (Gamma 1 chain) Antibody Peroxidase Conjugated - 610-4340 |
| <b>Item No.:</b>     | 610-4340                                                                         |
| <b>Size:</b>         | 1 mg                                                                             |
| <b>Applications:</b> | ELISA, WB                                                                        |
| <b>Reactivity:</b>   | Mouse                                                                            |
| <b>Host Species:</b> | Rabbit                                                                           |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Background:</b>   | Anti-Mouse IgG1 Peroxidase 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 peroxidase Conjugation, Rabbit Anti-Mouse IgG1 HRP Conjugated Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Specificity:</b>  | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Conjugate:</b>    | Peroxidase (HRP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

**Target Details**

|                    |                        |
|--------------------|------------------------|
| <b>Reactivity:</b> | Mouse                  |
| <b>Immunogen:</b>  | Mouse IgG1 heavy chain |

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| <b>Purity/Specificity:</b> | This product was prepared from monospecific antiserum by immunoaffinity chromatography using Mouse IgG 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 against other mouse or human heavy chain isotypes. Cross reactivity with Mouse IgG2b and IgG3 is 1%. |
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## Application Details

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| <b>Tested Applications:</b> | ELISA, WB                                                                                                                                                                                                                                                                              |
| <b>Application Note:</b>    | Mouse IgG1 secondary antibody conjugated to HRP is available in a variety of formats. Anti-Mouse IgG1 Peroxidase 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>               | 1:20,000 - 1:200,000                                                                                                                                                                                                                                                                   |
| <b>IHC:</b>                 | 1:500 - 1:2,500                                                                                                                                                                                                                                                                        |
| <b>WB:</b>                  | 1:2,000 - 1:20,000                                                                                                                                                                                                                                                                     |

## Formulation

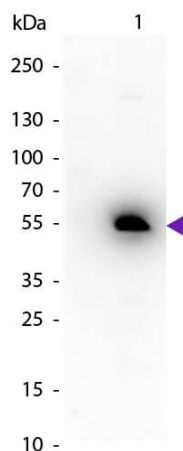
|                               |                                                                        |
|-------------------------------|------------------------------------------------------------------------|
| <b>Physical State:</b>        | Lyophilized                                                            |
| <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) 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 secondary antibody 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



### Western Blot

Western blot of Peroxidase conjugated Rabbit Anti-Mouse IgG1 (Gamma 1 chain) secondary antibody. Lane 1: Mouse IgG1. Lane 2: None. Load: 50 ng per lane. Primary antibody: None. Secondary antibody: Peroxidase rabbit secondary antibody at 1:1,000 for 60 min at RT. Blocking: MB-070 for 30 min at RT. Predicted/Observed size: 55 kDa, 55 kDa for Mouse IgG1 (Gamma 1 chain). Other band(s): None.

## References

- Wakabayashi R et al. Self-Assembling Aromatic Peptide Amphiphile Fibers for Multivalent Display of Enzymatically Linked Antigenic Proteins. *ACS Appl Mater Interfaces*. (2025)
- Han J et al. Id3 and Bcl6 Promote the Development of Long-Term Immune Memory Induced by Tuberculosis Subunit Vaccine. *Vaccines (Basel)*. (2021)
- Kitaoka et al. A Solid-in-Oil Nanodispersion System for Transcutaneous Immunotherapy of Cow's Milk Allergies. *Pharmaceutics* (2020)
- Wakabayashi R et al. Transcutaneous codelivery of tumor antigen and resiquimod in solid-in-oil nanodispersions promotes antitumor immunity. *ACS Biomater Sci Eng*. (2019)
- Miller DS et al. Preclinical efficacy studies of influenza A haemagglutinin precursor cleavage loop peptides as a potential vaccine. *J Gen Virol*. (2011)

## Disclaimer

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