

Datasheet for 610-4312

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

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

Product Details

Background:	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 compliment 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.
Synonyms:	rabbit anti-Mouse IgG Antibody peroxidase conjugation, rabbit anti-Mouse IgG gamma HRP conjugated Antibody
Host Species:	Rabbit
Specificity:	IgG (gamma chain)
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG
F/P Ratio:	0.45

Target Details

Reactivity:	Mouse
Immunogen:	Mouse IgG gamma heavy chain
Purity/Specificity:	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

Tested Applications:	ELISA
Suggested Applications:	Other, WB (Based on references)
Application Note:	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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:21,000
IHC:	1:500 - 1:2,500
WB:	1:1,000 - 1:5,000

Formulation

Physical State:	Lyophilized
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	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.

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

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