

Datasheet for 610-4012**Mouse IgG (gamma chain) Antibody Rhodamine Conjugated****Overview**

Description:	Rabbit Anti-Mouse IgG (gamma chain) Antibody Rhodamine Conjugated - 610-4012
Item No.:	610-4012
Size:	1 mg
Applications:	Dot Blot, EM
Reactivity:	Mouse
Host Species:	Rabbit

Product Details

Background:	Anti-Mouse IgG Rhodamine 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.
Synonyms:	rabbit anti-Mouse IgG Antibody rhodamine conjugation, rabbit anti-Mouse IgG gamma TRITC conjugated Antibody
Host Species:	Rabbit
Specificity:	IgG (gamma chain)
Conjugate:	Rhodamine (TRITC)
Clonality:	Polyclonal
Format:	IgG
F/P Ratio:	2.9

Target Details

Reactivity:	Mouse
Immunogen:	Mouse IgG gamma heavy chain
Purity/Specificity:	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-Rabbit Serum, Mouse IgG, and Mouse Serum. Less than 1% cross reactivity was observed by ELISA against other Mouse heavy and light chain proteins.

Application Details

Tested Applications:	Dot Blot
Suggested Applications:	EM (Based on references)
Application Note:	Anti-Mouse IgG Rhodamine Antibody has been tested but dot blot and is designed for immunofluorescence microscopy, fluorescence based plate assays (FLISA) and fluorescent western blotting. 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.
FC:	1:500 - 1:2,500
FLISA:	1:10,000 - 1:50,000
IF:	1:1,000 - 1:5,000

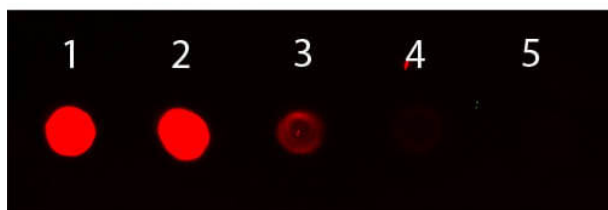
Formulation

Physical State:	Lyophilized
Concentration:	1.0 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) 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.

Images



Dot Blot

Dot Blot of Rabbit anti-Mouse IgG (gamma chain) Antibody Rhodamine Conjugated. Antigen: Mouse IgG. Load: Lane 1 - 100 ng Lane 2 - 33.3 ng Lane 3 - 11.1 ng Lane 4 - 3.70 ng Lane 5 - 1.23 ng. Primary antibody: n/a. Secondary antibody: Rabbit anti-Mouse IgG (gamma chain) Antibody Rhodamine Conjugated at 1:1,000 for 60 min at RT. Block: MB-070 for 1 HR at RT.

References

- Ghosh S et al. β -Coronaviruses use lysosomes for egress instead of the biosynthetic secretory pathway. *Cell*. (2020)

Disclaimer

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