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www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 611-1002

Rabbit IgG (H&L) Antibody Rhodamine Conjugated

Overview

Description:	Goat Anti-Rabbit IgG (H&L) Antibody Rhodamine Conjugated - 611-1002
Item No.:	611-1002
Size:	2 mg
Applications:	Dot Blot, WB, IF, IHC, Multiplex
Reactivity:	Rabbit
Host Species:	Goat

Product Details

Background:	Anti-Rabbit IgG Antibody Rhodamine generated in goat detects rabbit IgG. 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. Both heavy and light chains of the antibody molecule are present. 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. This Anti-Rabbit IgG (H&L) is conjugated to Rhodamine.
Synonyms:	Goat anti-Rabbit IgG Antibody Rhodamine Conjugation, Goat anti-Rabbit IgG Rhodamine Conjugated Antibody
Host Species:	Goat
Specificity:	IgG (H&L)
Conjugate:	Rhodamine (TRITC)
Clonality:	Polyclonal
Format:	IgG
F/P Ratio:	1.42

Target Details

Reactivity:	Rabbit
Immunogen:	Rabbit IgG whole molecule
Purity/Specificity:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Rabbit IgG coupled to agarose. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, Rabbit IgG and Rabbit Serum.

Application Details

Tested Applications:	Dot Blot, WB
Suggested Applications:	IF, IHC, Multiplex (Based on references)
Application Note:	Anti-Rabbit IgG Antibody Rhodamine conjugate has been tested by dot blot and western 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

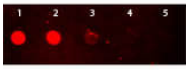
Formulation

Physical State:	Lyophilized
Concentration:	2.0 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)

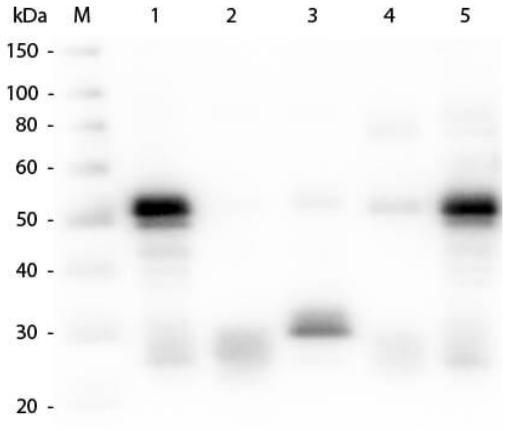
Shipping & Handling

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.

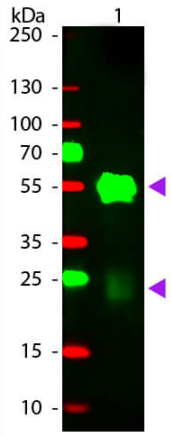
Images



Dot Blot
Dot Blot of Rhodamine Conjugated Goat-anti-Rabbit IgG. Antigen: Rabbit IgG. Load: Lane 1 - 50ng Lane 2 - 16.67ng Lane 3 - 5.56ng Lane 4 - 1.85ng Lane 5 - 0.62ng. Primary antibody: none. Secondary antibody: Rhodamine Conjugated Goat-a-Rabbit IgG secondary antibody at 1:1,000 for 60 min at RT. Block: MB-070 for 60 min at RT.



Western Blot
Western Blot of Anti-Rabbit IgG (H&L) (GOAT) Antibody (p/n 611-1102). Lane M: 3 µl Molecular Ladder. Lane 1: Rabbit IgG whole molecule (p/n 011-0102). Lane 2: Rabbit IgG F(ab) Fragment (p/n 011-0105). Lane 3: Rabbit IgG F(c) Fragment (p/n 010-0103). Lane 4: Rabbit IgM Whole Molecule (p/n 011 -0107). Lane 5: Normal Rabbit Serum (p/n B309). All samples were reduced. Load: 50 ng per lane. Block: MB-070 for 30 min at RT. Primary Antibody: Anti-Rabbit IgG (H&L) (GOAT) Antibody (p/n 611-1102) 1:1,000 for 60 min at RT. Secondary antibody: Anti-Goat IgG (DONKEY) Peroxidase Conjugated Antibody (p/n CUST10) 1:40,000 in MB-070 for 30 min at RT. Predicted/Observed Size: 25 and 50 kDa for Rabbit IgG and Serum, 25 kDa for F(c) and F(ab), 70 and 23 kDa for IgM. Rabbit F(c) migrates slightly higher.



Western Blot

Western Blot of Goat anti-Rabbit IgG Rhodamine Conjugated Secondary Antibody. Lane 1: Rabbit IgG. Lane 2: None. Load: 50 ng per lane. Primary antibody: None. Secondary antibody: Rhodamine goat secondary antibody at 1:1,000 for 60 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 25 & 55 kDa, 25 & 55 kDa for Rabbit IgG. Other band(s): None.

References

- Koyama Y et al. Endothelin-1 increases Na+-K+-2Cl- cotransporter-1 expression in cultured astrocytes and in traumatic brain injury model: An involvement of HIF1α activation. *Glia.* (2024)
- Yue CH et al. Myeloid Zinc Finger 1 (MZF1) Maintains the Mesenchymal Phenotype by Down-regulating IGF1R/p38 MAPK/ERα Signaling Pathway in High-level MZF1-expressing TNBC cells. *Anticancer Res.* (2019)
- Adefolaju GA et al. BAX/BCL-2 mRNA and protein expression in human breast MCF-7 cells exposed to drug vehicles-methanol and dimethyl sulfoxide (DMSO) for 24 hrs. *Niger Med J.* (2015)

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