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Datasheet for 611-100-122

Rabbit IgG (H&L) Antibody Rhodamine Conjugated Pre-Adsorbed

Overview

Description:	Goat Anti-Rabbit IgG (H&L) Antibody Rhodamine Conjugated (Min X Bv Ch Gt GP Ham Hs Hu Ms Rt & Sh Serum Proteins) - 611-100-122
Item No.:	611-100-122
Size:	1 mg
Applications:	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:	2.4

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 beads followed by solid phase adsorption(s) to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, Rabbit IgG and Rabbit Serum. No reaction was observed against Bovine, Chicken, Goat, Guinea Pig, Hamster, Horse, Human, Mouse, Rat and Sheep Serum Proteins.

Application Details

Suggested Applications:	IHC, Multiplex (Based on references)
Application Note:	This product 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

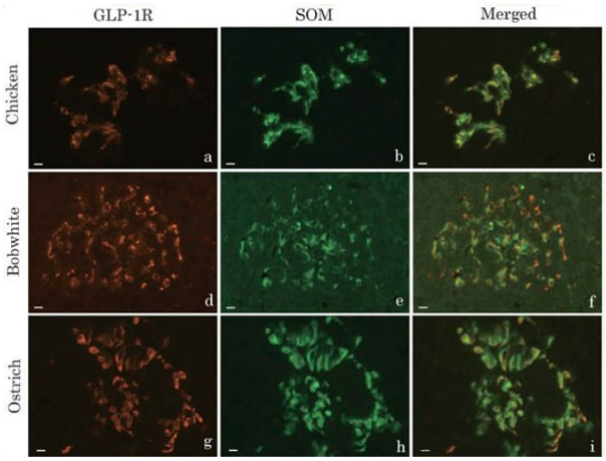
Formulation

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)

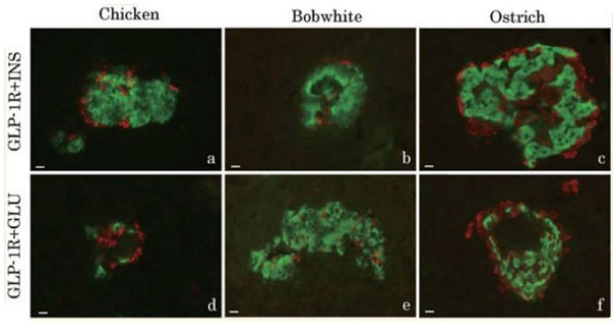
Shipping & Handling

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.

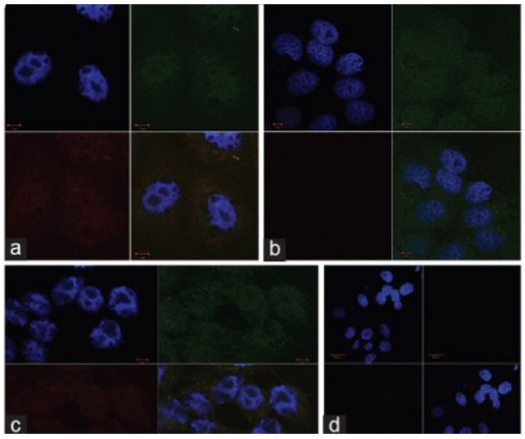
Images



Immunofluorescence Microscopy
Double immunofluorescence images of glucagon-like peptide-1 receptor (GLP-1R, a, d, g) and somatostatin (SOM, b, e, h) in the pancreatic islets of chickens (a–c), northern bobwhites (d–f), and ostriches (g–i). Figures c, f, and i show merged images of a and b, d and e, and g and h, respectively. Almost every SOM-immunoreactive cell in the pancreatic islets of three avian species also demonstrated GLP-1R immunoreactivity. Bars indicate 10 µm. Fig. 1. PMID: 32055175.



Immunofluorescence Microscopy
Merged images of double immunofluorescence pictures of glucagon-like peptide-1 receptor (red) and insulin (green) (GLP-1R + INS, a–c), and glucagon-like peptide-1 receptor (red) and glucagon (green) (GLP-1R + GLU, d–f) in the pancreatic islets of chickens (a and d), northern bobwhites (b and e), and ostriches (c and f). Islet cells showing either insulin or glucagon immunoreactivity were immunonegative to glucagon-like peptide-1 receptor. Bars indicate 10 µm. Fig. 2. PMID: 32055175.



Immunofluorescence Microscopy
Fluorescent micrographs of MCF-7 cells unexposed to either solvent (a) exposed to 0.5% Methanol (b) and 0.5% DMSO (c). D is negative control. BCL-2 was stained with monoclonal anti-BCL-2 and Goat Anti-Mouse IgG FITC conjugated (Upper Right Quadrant- showing the nuclear and cytoplasmic expression of the oncogene BCL-2). BAX was stained with polyclonal rabbit anti-BAX and Goat anti-Rabbit IgG Rhodamine conjugated (Lower Left quadrant- showing the nuclear and cytoplasmic expression of BAX). Nucleus was counterstained with DAPI (Upper left quadrant). The lower right quadrant shows the combined image. 2D shows fluorescent micrographs of MCF-7 cells unexposed to either solvent. Cells were incubated with the secondary antibodies but not the primary antibodies to reveal non-specific staining. The nucleus was counterstained with DAPI (Upper left quadrant). The lower right quadrant represents the combined image. Figure 2. PMID: 26229223.

References

- Watanabe T et al. Glucagon-like Peptide-1 Receptor Expression in the Pancreatic D Cells of Three Avian Species; White Leghorn Chickens, Northern Bobwhites, and Common Ostriches. *J Poult Sci.* (2018)
- 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)
- Andreoletti O et al. Astrocytes accumulate 4-hydroxynonenal adducts in murine scrapie and human Creutzfeldt–Jakob disease. *Neurobiol Dis.* (2002)

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