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Datasheet for 611-1202-0500

Rabbit IgG (H&L) Secondary Antibody Fluorescein Conjugated

Overview

Description:	Goat Anti-Rabbit IgG (H&L) Antibody Fluorescein Conjugated - 611-1202-0500
Item No.:	611-1202-0500
Size:	500 µg
Applications:	Dot Blot, WB, FC, IF, IHC, Multiplex
Reactivity:	Rabbit
Host Species:	Goat

Product Details

Background:	Anti-Rabbit IgG (H&L) Antibody Fluorescein Conjugated generated in goat detects reactivity to 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 the 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.
Synonyms:	Goat anti-Rabbit IgG Antibody fluorescein Conjugation, Goat anti-Rabbit IgG FITC Conjugated Antibody
Host Species:	Goat
Specificity:	IgG (H&L)
Conjugate:	Fluorescein (FITC)
Clonality:	Polyclonal
Format:	IgG

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-Fluorescein, anti-Goat Serum, Rabbit IgG and Rabbit Serum.

Application Details

Tested Applications:	Dot Blot, WB
Suggested Applications:	FC, IF, IHC, Multiplex (Based on references)
Application Note:	Anti-Rabbit IgG Antibody Fluorescein 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

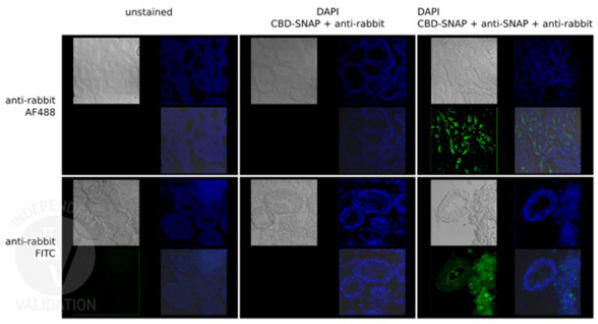
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	500 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

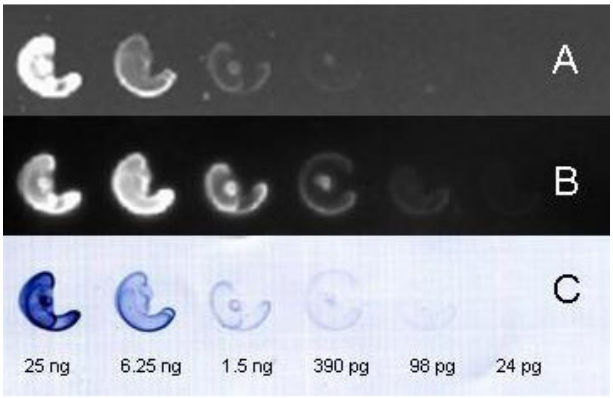
Shipping Condition:	Ambient

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.

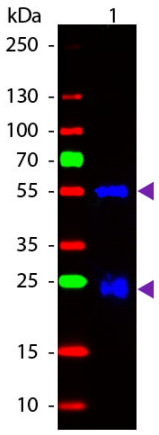
Images



Immunofluorescence Microscopy
Immunofluorescence of Goat Anti-Rabbit IgG (H&L) Antibody Fluorescein Conjugated.
Tissue: oyster visceral mass tissue.
Fixation: 4% paraformaldehyde overnight.
Primary Antibody: Unstained samples (left column); CBD-SNAP antibody (middle column); or CBD-SNAP and SNAP-tag double-stained sections with rabbit anti-SNAP antibody (right column) diluted 1:200 in PBST with 1% BSA overnight at 4°C.
Secondary Antibody: positive control Anti-Rabbit Alexa 488 (top row) or goat anti-rabbit IgG (heavy & light chain) antibody (FITC) (bottom row) diluted 1:400 in PBST with 1% BSA for 2h at °C.
Counterstain: DAPI for 15min at RT.
Independently Validated by antibodies-online GmbH (p/n ABIN7539591/ ABIN101988) courtesy of Clemson University.



Dot Blot
Rockland FITC (fluorescein) and HRP (horse radish peroxidase) conjugated secondary antibody was used to detect nanogram – picogram levels of rabbit IgG by dot blot on nitrocellulose membrane. 4 ul each of serial 1 in 4 dilutions of rabbit IgG were dotted on nitrocellulose and allowed to dry. Membrane was blocked in 3% BSA for 10 minutes dried for later use and rewetted with MB-070. Blot was incubated in Rockland fluorescein conjugated goat anti rabbit 611-1202 lot 25176 1:10,000 and Rockland HRP conjugated goat anti Rabbit 611-1302 lot 25406 1:10,000, dried and: A. Blot was imaged on the BioRad VersaDoc with filter settings appropriate for Fluorescein/DyLight 488. B. Blot was rewetted with TBS, incubated with FEMTOMAX chemiluminescent substrate for 1-3 minutes and imaged for 60sec on the BioRad VersaDoc Imaging System. C. Blot was rinsed with TBS and DIH2O, incubated for 5 minutes with Rockland TMB Substrate for Western Blot MaxTag (1 ml of TMBM-102 + ~9 ml of TMBM-101), dried overnight and imaged using a conventional flatbed scanner.



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

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