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Datasheet for 611-1003

Rabbit IgG Fc Antibody Rhodamine Conjugated

Overview

Description:	Goat Anti-Rabbit IgG Fc Antibody Rhodamine Conjugated - 611-1003
Item No.:	611-1003
Size:	2 mg
Applications:	EM
Reactivity:	Rabbit
Host Species:	Goat

Product Details

Background:	Anti-Rabbit IgG F(c) Rhodamine antibody generated in goat is a proteolytic fragment of immunoglobulin G (IgG) obtained by limited digestion with the enzyme papain under controlled conditions of temperature, time and pH. Receptors bind the Fc portion of rabbit IgG and often this fragment is removed from immunoglobulins to minimize receptor binding and lower background reactivity.
Synonyms:	Goat anti-Rabbit IgG F(c) Antibody Rhodamine Conjugation, Goat anti-Rabbit IgG Fc fragment Antibody Rhodamine Conjugation, Goat anti-Rabbit IgG F(c) Rhodamine Conjugated Antibody
Host Species:	Goat
Specificity:	IgG Fc
Conjugate:	Rhodamine (TRITC)
Clonality:	Polyclonal
Format:	IgG
F/P Ratio:	3.29

Target Details

Reactivity:	Rabbit
Immunogen:	Rabbit IgG F(c) fragment

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, Rabbit IgG F(c) and Rabbit Serum. No reaction was observed against Rabbit IgG F(ab).

Application Details

Suggested Applications:	EM (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:	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

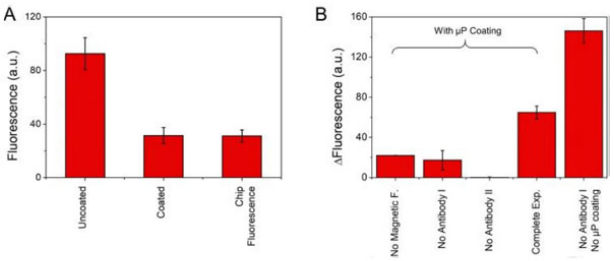

Figure
(a) Channels coating: remnant fluorescence due to nonspecific binding of anti-rabbit IgG labeled with B-rhodamine (p/n 611-1003) [AbII] at a concentration of 100 µg/ml in uncoated and coated microchannels with silane-PEG.
(b) Fluorescence obtained from the complete immunoassay at a flow rate of 5 µl/h and at a anti-biotin rabbit IgG (p/n 100-4198) [AbI] concentration of 50 pg/ml is compared to the fluorescence obtained from the immunoassay performed without applying the magnetic field (column 1), without adding anti-biotin rabbit IgG (p/n 100-4198) [AbI] (column 2), without adding), anti-rabbit IgG labeled with B-rhodamine (p/n 611-1003) [AbII] (column 3), and, finally, the efficacy of the microparticles coating was tested by performing the immunoassay without anti-biotin rabbit IgG (p/n 100-4198) [AbI] and with noncoated microparticles (column 5). The level of fluorescence of the two first columns in b results from nonspecific interactions of anti-rabbit IgG labeled with B-rhodamine (p/n 611-1003) [AbII] with the microparticles. Error bars are standard deviation. FIG. 5. PMID: 32038740.

References

- Guevara-Pantoja PE et al. Micro–nanoparticles magnetic trap: Toward high sensitivity and rapid microfluidic continuous flow enzyme immunoassay. *Biomicrofluidics.* (2020)

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