Order online now!

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

Datasheet for 012-008-040

Rat IgG1 isotype control Phycoerythrin

Overview

Description:	Rat IgG1 Isotype Control Phycoerythrin Conjugated - 012-008-040
Item No.:	012-008-040
Size:	500 µg
Applications:	Dot Blot
Origin:	Rat

Product Details

Background:	RAT IgG1 isotype control is used in flow cytometry, western blot and ELISA and differentiate between immunoglobulin classes and subclasses. Isotype controls allow for the genetic variations or differences in the constant regions of the heavy and light chains. In Rat there are six relevant heavy chain isotypes and two light chain isotypes: heavy chain alpha - IgA, gamma - IgG 1, 2a, 2b, 2c and µ - IgM, light chain kappa and lambda.
Synonyms:	Rat Isotype Control, Rat IgG1 PE isotype, RAT IgG1 subclass isotype control
Species of Origin:	Rat
Conjugate:	R-Phycoerythrin (RPE)
Clone ID:	RG1
Format:	IgG1
Type:	Native Protein
F/P Ratio:	3.7

Target Details

Purity/Specificity:	RAT IgG1 isotype control has been prepared from concentrated cell culture supernatant by immunoaffinity chromatography using protein G. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-phycoerythrin, anti-Rat IgG and anti-Rat serum. Isotyping assay resulted non-reactive with antisera to Rat IgG2a, IgG2b, IgG3, IgM, and IgA. Phycoerythrin Conjugated Rat IgG1 confirmed by Dot Blot.

Application Details

Tested Applications:	Dot Blot
Application Note:	RAT IgG1 isotype control has been tested in dot blot and can be utilized as a control or standard reagent in Western Blotting, Flow Cytometry, and ELISA experiments where determination of sample isotype is important. Specific conditions should be optimized by user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:2000 - 1:20,000
FC:	1:1000-1:5000
FLISA:	User Optimized
IF:	User Optimized

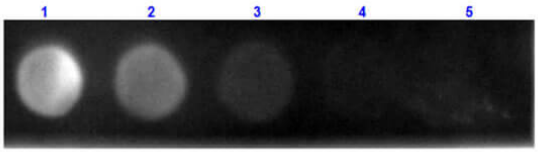
Formulation

Physical State:	Lyophilized
Concentration:	0.5 mg/mL by UV absorbance = 82.0 at 565 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 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. Restore with deionized water (or equivalent). This product is stable at 4° C as an undiluted liquid. Dilute only prior to immediate use. Centrifuge product if not completely clear after standing at room temperature. Do not freeze after reconstitution. Store reagent in the dark. Use subdued lighting during handling and incubation of cells prior to analysis.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Dot Blot

Dot Blot results of Rat IgG1 isotype control Phycoerythrin Conjugated. Antigen: Rat IgG1 isotype control RPE Conjugated. Blot loaded at 3 fold dilution: 1. 100ng, 2. 33.3ng, 3. 11.1ng, 4. 3.70ng, 5. 1.23ng. Blocking: MB-070 Buffer for 30 minutes at RT. Imaging System ChemiDoc, Filter used: Rhodamine.

Disclaimer