

Datasheet for 012-002-041**Rat IgG2a isotype control Fluorescein****Overview**

Description:	Rat IgG2a Isotype Control Fluorescein Conjugated - 012-002-041
Item No.:	012-002-041
Size:	50 µg
Applications:	Dot Blot
Origin:	Rat

Product Details

Background:	RAT IgG2a 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 IgG2a FITC isotype, RAT IgG2a subclass isotype control
Species of Origin:	Rat
Conjugate:	Fluorescein (FITC)
Clone ID:	RG2a
Format:	IgG2a
Type:	Native Protein
F/P Ratio:	2.52

Target Details

Purity/Specificity:	RAT IgG2a 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-Rat IgG and anti-Rat serum. Isotyping assay resulted non-reactive with antisera to Rat IgG1, IgG2b, IgG3, IgM, and IgA. Fluorescein Conjugated Rat IgG2a confirmed by Dot Blot.
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Application Details

Tested Applications:	Dot Blot
Application Note:	RAT IgG2a 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:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

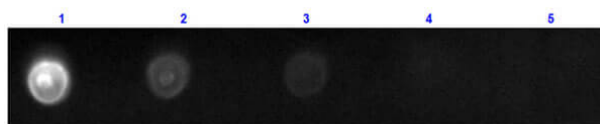
Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. DO NOT FREEZE. This product is light sensitive.
Expiration:	Expiration date is one (1) year from date of receipt.

Images

Dot Blot

Dot Blot results of Rat IgG2a Isotype Control Fluorescein Conjugated. Antigen: Rat IgG2a Isotype Control FITC 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: FITC.

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