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Datasheet for 010-0641

Mouse IgG2a isotype control Biotin

Overview

Description:	Mouse IgG2a Isotype Control Biotin Conjugated - 010-0641
Item No.:	010-0641
Size:	100 µg
Applications:	ELISA
Origin:	Mouse

Product Details

Background:	Isotype controls are important for Flow Cytometry and have no specificity for target cells within a particular experiment. Their purpose is to confirm the specificity of primary antibody binding that it is not a result of non-specific Fc receptor binding to cells or other cellular protein interactions. Isotype controls need to be matched to the specific primary Abs (species and isotype, including heavy and light chains) being used.
Synonyms:	biotin conjugated Mouse IgG2a subclass isotype control, Mouse IgG2a isotype control biotin conjugation
Species of Origin:	Mouse
Conjugate:	Biotin
Clone ID:	M2A
Format:	IgG2a
Type:	Native Protein

Target Details

Purity/Specificity:	This product has been prepared from in vitro cell culture by selective precipitation. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Mouse IgG2a and anti-Mouse Serum. Isotyping assay resulted the material is non-reactive with antisera to mouse IgG1, IgG2b, IgG3, IgM, and IgA. Biotin Conjugated Mouse IgG2a was proven by Dot Blot.

Application Details

Tested Applications:	ELISA
Application Note:	Mouse IgG2a isotype control has been tested in ELISA and can be utilized as a control or standard reagent in Flow cytometry, Western Blotting, and ELISA experiments where determination of sample isotype is important.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	1:1000-1:5000
FLISA:	User Optimized
IF:	1:1000-1:5000

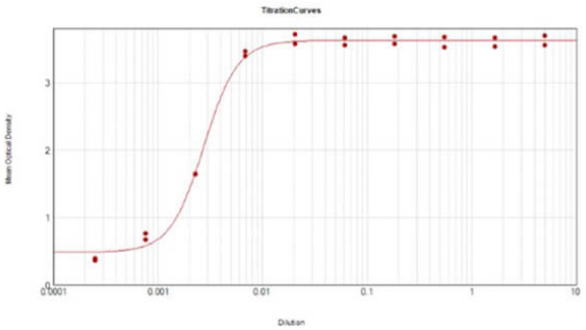
Formulation

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:	100 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



ELISA

ELISA Results of Mouse IgG2a Isotype Control Biotin Conjugated. Each well was coated in duplicate with 1.0 µg of Mouse IgG2a Isotype Control Biotin Conjugate. The working dilution is 364,000. The starting dilution of antibody was 5µg/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using Blocking buffer (p/n MB-076), Streptavidin-HRP conjugated (p/n S000-03) and TMB substrate (p/n TMBE-1000).

Disclaimer

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