

Datasheet for 010-0140**Mouse IgG1 isotype Control****Overview**

Description:	Mouse IgG1 Isotype Control - 010-0140
Item No.:	010-0140
Size:	1 mg
Applications:	ELISA, SDS-PAGE, Other
Origin:	Mouse

Product Details

Background:	Isotype control Mouse IgG1 is important for Flow Cytometry. Mouse IgG1 control has 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:	Mouse IgG1 isotype, Mouse IgG1 subclass isotype, Mouse IgG1 Control, Mouse isotype Control
Species of Origin:	Mouse
Clone ID:	MG1
Format:	IgG1
Type:	Native Protein

Target Details

Purity/Specificity:	Mouse IgG1 Isotype control has been prepared from concentrated cell culture supernatant by immunoaffinity chromatography using protein A. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Mouse IgG1 and anti-Mouse Serum. Isotyping assay resulted the material is non-reactive with antisera to mouse IgG2a, IgG2b, IgG3, IgM, and IgA. SDS-PAGE shows a band at 60 kDa corresponding to alpha heavy chain.
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Application Details

Tested Applications:	ELISA, SDS-PAGE
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Suggested Applications:	Other (Based on references)
Application Note:	Mouse IgG1 isotype control has been tested by ELISA and SDS-Page 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.
ELISA:	User Optimized
FC:	1:1000-1:5000
FLISA:	User Optimized
IF:	User Optimized
WB:	User Optimized

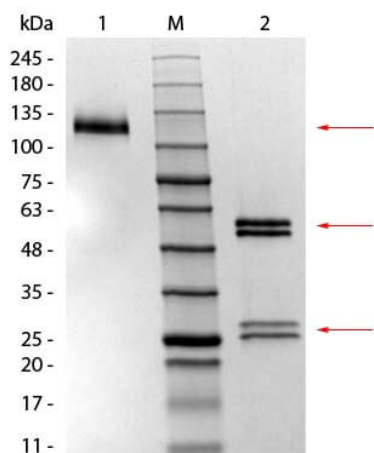
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.5 M Sodium Chloride, pH 7.2
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. 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



SDS-PAGE

SDS-PAGE of Mouse IgG1 Isotype Control. Lane 1: Mouse IgG1 Isotype Control, Non-reduced. M: Opal Pre-stained Ladder (p/n MB-210-0500). Lane 2: Mouse IgG1 Isotype Control, Reduced. Load: 1.0 µg per lane. Predicted/Observed: 120 kDa Non-reduced, 55 and 25 Reduced.

References

- Darrau E et al. Serum autoantibodies against $\alpha 7$ -nicotinic receptors in subgroups of patients with bipolar disorder or schizophrenia: clinical features and link with peripheral inflammation. *Transl Psychiatry*. (2024)

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