Order online now!

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

Datasheet for 010-001-332

Mouse IgG2a Kappa isotype Control

Overview

Description:	Mouse IgG2a Kappa (κ) Isotype Control - 010-001-332
Item No.:	010-001-332
Size:	1 mg
Applications:	ELISA, SDS-PAGE, WB
Origin:	Mouse

Product Details

Background:	Mouse isotype controls are 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 mouse there are six relevant heavy chain isotypes and two light chain isotypes: heavy chain alpha - IgA, gamma - IgG 1, 2a, 2b, 3 and μ - IgM, light chain kappa and lambda.
Synonyms:	Mouse IgG2a isotype control, Mouse IgG2a subclass isotype control, Mouse IgG2a Kappa
Species of Origin:	Mouse
Clone ID:	M2AK
Format:	IgG2a
Type:	Native Protein

Target Details

Purity/Specificity:	Mouse 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 IgG2a and anti-Mouse serum. Isotyping assay resulted non-reactive with antisera to mouse IgG1, IgG2b, IgG3, IgA, IgM. Light chain composition has been confirmed by SDS-PAGE.
Relevant Links:	• 010-001-332 SDS

Application Details

Tested Applications:	ELISA, SDS-PAGE, WB
Application Note:	Mouse IgG2a kappa isotype control has been tested in SDS-Page, ELISA, and western blot 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

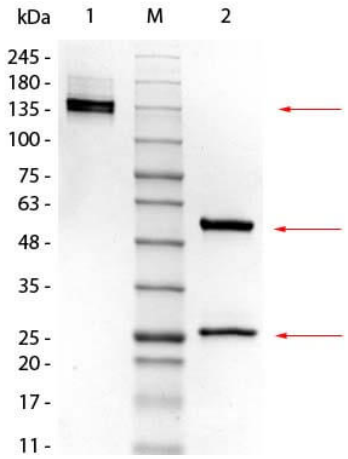
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.009 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. This product is stable 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage mix with an equal volume of glycerol, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



SDS-PAGE
SDS-PAGE of Mouse IgG2a Kappa Isotype Control. Lane 1: Mouse IgG2a Kappa Isotype Control, Non-reduced. M: Opal Pre-stained Ladder (p/n MB-210-0500). Lane 2: Mouse IgG2a Kappa Isotype Control, Reduced. Load: 1.0 µg per lane. Predicted/Observed: 140 kDa Non-reduced, 55 and 25 Reduced.

References

- Tunstead C et al. The PPARβ/-induced mesenchymal stromal cell secretome has cytoprotective effects via ANGPTL4 in a pre-clinical model of acute lung inflammation. *bioRxiv [preprint]* (2025)
- Hayden H et al. ELISA detection of MPO-DNA complexes in human plasma is error-prone and yields limited information on neutrophil extracellular traps formed in vivo. *PLoS One.* (2021)

Disclaimer