

Datasheet for 012-001-P04**Rat IgG2c Kappa isotype control****Overview**

Description:	Rat IgG2c Kappa (κ) Isotype Control - 012-001-P04
Item No.:	012-001-P04
Size:	500 μ g
Applications:	SDS-PAGE
Origin:	Rat

Product Details

Background:	RAT IgG2c Kappa 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 IgG2c isotype, Rat IgG2c kappa isotype, Rat IgG2 Kappa
Species of Origin:	Rat
Clone ID:	RG2cK
Format:	IgG2c
Type:	Native Protein

Target Details

Purity/Specificity:	RAT IgG2c Kappa 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 IgG1a, IgG1b, IgG3, IgM, and IgA. Allophycocyanin Conjugated Rat IgG2c confirmed by Dot Blot.
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Application Details

Tested Applications:	SDS-PAGE
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Application Note:	RAT IgG2c Kappa isotype control has been tested in SDS-Page 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:	User Optimized
FC:	1:1000 - 1:5000
FLISA:	User Optimized
IF:	User Optimized
WB:	User Optimized
Other:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.980 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.

Disclaimer

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