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RAT IgG2a isotype control Phycoerythrin

Monoclonal IgG2a , R-Phycoerythrin (RPE)
Catalog # ASR3299

Product Information

Description	RAT IgG2a isotype control Phycoerythrin conjugated
Conjugate	R-Phycoerythrin (RPE)
FP Value	1-2 moles R-Phycoerythrin (RPE) per mole of Rat IgG2a
Clonality	Monoclonal IgG2a
Physical State	Liquid (sterile filtered)
Host Isotype	IgG2a
Species of Origin	Rat
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide

Additional Information

Shipping Condition	Wet Ice
Application Note	RAT IgG2a isotype control 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.
Purity	RAT IgG2a isotype control has been prepared from concentrated cell culture supernatant by immunoaffinity chromatography using protein G. In an Ouchterlony double diffusion assay the material is non-reactive with antisera to rat IgG1, IgG2b, IgG3 , IgM , and IgA. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rat IgG and anti-Rat serum. Light and heavy chain composition has been confirmed.
Storage Condition	Store vial at 4° C prior to opening. Dilute only prior to immediate use. This product is stable at 4° C as an undiluted liquid. DO NOT FREEZE. Store reagent in the dark. Use subdued lighting during handling and incubation of cells prior to analysis.
Precautions Note	This product is for research use only and is not intended for therapeutic or diagnostic applications.

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 a - IgA, ? - IgG 1, 2a, 2b, 2c and □- IgM, light chain ? and ?.