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# RAT IgG2a isotype control

Monoclonal RG2a IgG2a , Unconjugated
Catalog # ASR2532

## Product Information

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| **Description** | RAT IgG2a isotype control |
| **Conjugate** | Unconjugated |
| **Clonality** | Monoclonal RG2a IgG2a |
| **Physical State** | Liquid (sterile filtered) |
| **Host Isotype** | IgG2a |
| **Buffer** | 0.02 M Potassium Phosphate, 0.5 M Sodium Chloride, pH 7.2 |
| **Species of Origin** | Rat |
| **Stabilizer** | None |
| **Preservative** | 0.01% (w/v) Sodium Azide |

## Additional Information

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| **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 IgG1a, IgG1b, 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. 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. |
| **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 ?.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.