

**RAT IgG1 isotype control**  
**Monoclonal RG1 IgG1 , Unconjugated**  
**Catalog # ASR2531****Specification**

---

**RAT IgG1 isotype control - Product Information**

Description	<b>RAT IgG1 isotype control</b>
Conjugate	<b>Unconjugated</b>
Clonality	<b>Monoclonal</b>
Application	<b>,4,</b>
Application Note	<b>FlowCytometry 1:1000-1:5000</b>
Physical State	<b>Liquid (sterile filtered)</b>
Host Isotype	<b>IgG1</b>
Buffer	<b>0.02 M Potassium Phosphate, 0.5 M Sodium Chloride, pH 7.2</b>
Species of Origin	<b>Rat</b>
Stabilizer	<b>None</b>
Preservative	<b>0.01% (w/v) Sodium Azide</b>

**RAT IgG1 isotype control - Additional Information****Shipping Condition**

Wet Ice

**Purity**

RAT IgG1 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 IgG2a, 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. 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.

**RAT IgG1 isotype control - Protein Information****RAT IgG1 isotype control - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **RAT IgG1 isotype control - Images**

#### **RAT IgG1 isotype control - Background**

RAT IgG1 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  $\mu$  - IgM, light chain  $\kappa$  and  $\lambda$ .