# C1.18.4 Rat IgG2a Isotype Control Antibody | PA007152.rt2a

**Catalog No.:** PA007152.rt2a | **Product Name:** In vivo Grade Recombinant C1.18.4 Rat IgG2a Isotype Control Antibody | **In Vivo Grade / Recombinant Antibody**

Recombinant isotype control antibodies and Fc silenced mutants from clone C1.18.4 good for in vitro and in vivo studies. Low or no specific binding to human and mouse samples tested. Low prices for bulk order.

## PRODUCT SPECIFICATIONS

| | |
|---|---|
| **Catalog No.** | PA007152.rt2a |
| **Product Name** | In vivo Grade Recombinant C1.18.4 Rat IgG2a Isotype Control Antibody |
| **Supplier / Brand** | Syd Labs, Inc. / Syd Labs |
| **Synonyms** | Recombinant C1.18.4 Isotype Control, C1.18.4 Negative Control Antibody |
| **Summary** | The In vivo Grade Recombinant C1.18.4 Rat IgG2a Isotype Control Antibody was produced in mammalian cells. |
| **Clone** | C1.18.4 |
| **Isotype** | rat IgG2a, kappa |
| **Applications** | an isotype-matched negative control for mouse IgG2a kappa antibodies used in ELISA, Western Blot (WB), Flow Cytometry (Flow), Immunoprecipitation (IP), Immunohistochemistry (Paraffin) (IHC (P)), Immunohistochemistry (Frozen) (IHC (F)), and in vivo animal model research. |
| **Immunogen** | N/A. |
| **Form Of Antibody** | 0.2 μM filtered solution of 1x PBS. |
| **Endotoxin** | Less than 1 EU/mg of protein as determined by LAL method. |
| **Purity** | >95% by SDS-PAGE under reducing conditions. |
| **Shipping** | The In vivo Grade Recombinant C1.18.4 Rat IgG2a Isotype Control Antibody is shipped with ice pack. Upon receipt, store it immediately at the temperature recommended below. |
| **Stability & Storage** | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 1 month from date of receipt, 2 to 8°C as supplied. 3 months from date of receipt, -20°C to -70°C as supplied. |
| **Note** | Recombinant isotype control antibodies and Fc silenced mutants from clone C1.18.4 good for in vitro and in vivo studies. Low or no specific binding to human and mouse samples tested. Low prices for bulk order. |

## BACKGROUND & APPLICATION INFORMATION

The C1.18.4 antibody (IgG2a, kappa) in nature is suitable for use as an isotype-matched control antibody to estimate the degree of non-specific binding by an antigen-specific antibody. The recombinant C1.18.4 IgG2a kappa isotype control and mutants (natural and engineered mIgG2a isotype controls) are useful for in vitro and in vivo studies from ELISA, Western blot (WB), to cell-based assay to animal model study.

Mouse IgG2a antibodies are similar to human IgG1 antibodies in many aspects, thus researchers like to use the isotype of mouse IgG2a in mouse studies. Most of the therapeutic antibody drugs carry the natural human IgG1 constant regions. More and more engineered mutants in the human IgG1 Fc fragment have been tested during therapeutic antibody drug development. The corresponding mutations have been introduced to mouse IgG2a to study enhancement and abrogation effects of Fc binding. We generated recombinant C1.18.4 mIgG2a isotype control mutants, the same mutations as those in the therapeutic antibodies and candidates because such mouse IgG2a isotype control mutants are needed when clients test their engineered antibody candidates. For example, P329G substitution combined with L234A L235A (mIgG2a LALAPG, Fc silenced) was shown to decrease effector functions by disrupting the Fc/Fcγ receptor interface.

As an ideal recombinant mouse IgG2a isotype control, the recombinant C1.18.4 mIgG2a kappa isotype control has low or no specific binding to any mouse sample, and completely mouse variable regions and the mouse IgG2a kappa constant regions. The mouse IgG2a kappa isotype control and mutants can be used in ELISA, Western blot (WB), the cell-based assay or animal model as the antibody negative control.

Please contact us to ask for a quote for the engineered C1.18.4 mouse IgG2a isotype control mutants, mIgG2a isotype control and mutants with Avi-, His-, and Flag-tags, and biotinylated mIgG2a isotype control and mutants. A variety of conjugates (such as dyes and fluorophores) with the C1.18.4 mouse IgG2a isotype control and mutants are available.

### Order & Contact Information

**Phone:** 1-617-401-8149

**Fax:** 1-617-606-5022

**Email:** message@sydlabs.com

**Offline Order:** With formal purchase order (PO) or credit card