

Recombinant Mouse IgG2a Isotype Control Antibody

(Clone:12B9)

Catalog No.: PA007129

Background

Mouse IgG2a 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 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/Fc γ receptor interface.

The ideal recombinant mouse IgG2a 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 mouse IgG2a isotype control mutants, mIgG2a isotype control and mutants with Avi-, His-, and DYKDDDDK-tags, and biotinylated mIgG2a isotype control and mutants. A variety of conjugates (such as dyes and fluorophores) with the mouse IgG2a isotype control and mutants are available.

Source: The in vivo grade recombinant mouse IgG2a isotype control antibody (mIgG2a isotype control) was produced in mammalian cells.

Immunogen: N/A.

Clone: 12B9.

Isotype: mouse IgG2a, kappa.

Specificity/Sensitivity: An isotype-matched negative control for mouse IgG2a kappa antibodies.

Applications: ELISA, Western Blot (WB), Flow Cytometry (Flow), Immunoprecipitation (IP), Immunohistochemistry (Paraffin) (IHC (P)), Immunohistochemistry (Frozen) (IHC (F)), and in vivo animal model research.

Form of Antibody: 0.2 μ M filtered solution of 1x PBS.

Purity: >95% by SDS-PAGE under reducing conditions.

Endotoxin Level: Less than 1 EU/mg of protein as determined by LAL method.

RRID: AB_3698835.

Shipping: The product is shipped at 4 ° C. 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 if stored at 4 ° C as supplied.

12 months from date of receipt if stored at -20 ° C to -70 ° C as supplied.

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<https://www.duozhaozhao.com/mouse-igg2a-isotype-control-antibody-pa007129/>