Mouse IgG2a-N297A Isotype Control Antibody (Clone: 12B9) | PA007137

Catalog No.: PA007137 | **Product Name:** In Vivo Grade Recombinant Mouse IgG2a-N297A Isotype Control Antibody | **In Vivo Grade / Apopto-Silenced Mutant Antibody**

Recombinant mouse IgG2a kappa isotype control and mutants, mIgG2a D265A, N297A, and LALAPG, good for in vitro and in vivo studies. Low or no specific binding to mouse samples tested. More choices of recombinant mouse IgG2a isotype controls, including targets, mutants, tags, and conjugates.

Product Specifications

Catalog No.	PA007137
Product Name	In Vivo Grade Recombinant Mouse IgG2a-N297A Isotype Control Antibody
Synonyms	mIgG2a Isotype Control, mIgG2a D265A, mIgG2a N297A, Mouse IgG2a LALAPG Isotype Control Mutants
Summary	The in vivo grade recombinant mouse IgG2a-N297A isotype control mutant (mIgG2a N297A isotype control) was produced in mammalian cells.
Isotype	Mouse IgG2a-N297A Kappa
Applications	an isotype-matched negative control for mouse IgG2a N297A 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.
Source / Host	Mammalian cells / Mouse
Formulation	0.2 uM filtered solution of 1x PBS. Non-conjugated.
Endotoxin	Less than 1 EU/mg of protein as determined by LAL method.
Purity	**>95%** by SDS-PAGE under reducing conditions.

Biological Description & Background

PA007137: Recombinant Mouse IgG2a-N297A Isotype Control Antibody (Clone: 12B9), In Vivo Grade.

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/Fcgamma 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 Flag-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.

For human T cell research, Syd Labs OKT3 antibodies are also available.

Ordering & Technical Support

For custom volume ordering or inquiries, please visit the product webpage or contact our support team:

- **Product Webpage:** https://www.ushelf.com/mouse-igg2a-n297a-isotype-control-pa007137/
- **Order Phone:** 1-617-401-8149 | **Fax:** 1-617-606-5022

- **Support Email:** message@sydlabs.com