HyHEL-10 Rat IgG2a Isotype Control Antibody | PA007154.rt2a

Catalog No.: PA007154.rt2a | **Product Name:** In vivo Grade Recombinant HyHEL-10 Rat IgG2a Isotype Control Antibody | **In Vivo Grade / Recombinant Antibody**

Recombinant anti-HEL isotype control antibodies and Fc silenced mutants from clone HyHEL-10 good for in vitro and in vivo studies. Low or no specific binding to human, mouse, and rat samples tested. "Humanized" means the variable regions were humanized.

Product Specifications

Catalog No.	PA007154.rt2a
Product Name	In vivo Grade Recombinant HyHEL-10 Rat IgG2a Isotype Control Antibody
Synonyms	Anti-HEL Isotype Control, Recombinant HyHEL-10 Isotype Control, HyHEL-10 Negative Control Antibody
Summary	The In vivo Grade Recombinant HyHEL-10 Rat IgG2a Isotype Control Antibody was produced in mammalian cells.
Clone	HyHEL-10
Isotype	Rat IgG2a, kappa
Applications	an isotype-matched negative control for anti-HEL mouse IgG1 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	hen egg-white lysozyme (HEL).
Source / Host	Mammalian cells / Human
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.
Shipping	The In vivo Grade Recombinant HyHEL-10 Rat IgG2a Isotype Control Antibody (PA007154.rt2a) 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 anti-HEL isotype control antibodies and Fc silenced mutants from clone HyHEL-10 good for in vitro and in vivo studies. Low or no specific binding to human, mouse, and rat samples tested. "Humanized" means the variable regions were humanized.

Biological Description & Background

PA007154.rt2a: Recombinant HyHEL-10 Rat IgG2a Isotype Control Antibody (Clone: HyHEL-10), In vivo Grade.

The in vivo grade recombinant HyHEL-10 mouse IgG1 isotype control antibody (mIgG1 isotype control) was produced in mammalian cells.

The anti-HEL monoclonal antibody (hen egg-white lysozyme) 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 mouse IgG1 kappa isotype control (clone number: HyHEL-10) and mutants (natural and engineered mIgG1 isotype controls) are useful for in vitro and in vivo studies from ELISA, Western blot (WB), to cell-based assay to animal model study. The isotypes of mouse IgG antibody reagents used in scientific research and clinical diagnostics are mainly mouse IgG1 kappa. Mouse IgG1 antibodies and engineered mutants are also used in therapeutic drug discovery. Mouse IgG1 antibodies are more like human IgG4 antibodies than human IgG1 antibodies, which behave more like mouse IgG2a or IgG2c antibodies. Many antibody drugs especially those targetting immune checkpoint proteins use the human IgG4 constant regions.

As an ideal recombinant mouse IgG1 isotype control, the recombinant HyHEL-10 mIgG1 kappa isotype control has low or no specific binding to any mouse sample, and has completely mouse variable regions and the mouse IgG1 kappa constant regions. The anti-HEL mouse IgG1 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 HyHEL-10 isotype control mutants, isotype control and mutants with Avi-, His-, and Flag-tags, and biotinylated isotype control and mutants. A variety of conjugates (such as dyes and fluorophores) with the anti-HEL 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/hyhel-10-rat-igg2a-isotype-control-pa007154-rt2a/
- **Order Phone:** 1-617-401-8149 | **Fax:** 1-617-606-5022
- **Support Email:** message@sydlabs.com