

Chimeric Human IgG1-D265A Isotype Control Antibody (Clone: 4F17m) | PA007188

Catalog No.: PA007188 | Isotype: Human IgG1-D265A Kappa | In Vivo Grade / Fc Silenced Isotype Control

In vivo grade recombinant chimeric human IgG1 kappa isotype control and mutants. Low or no specific binding to human samples tested. Variable regions are not humanized. The humanized versions are also available. The lowest prices for bulk order. For human T cell research, Syd Labs OKT3 antibodies are also available.

Product Specifications

Catalog No.	PA007188
Product Name	In Vivo Grade Recombinant Chimeric Human IgG1-D265A Isotype Control Antibody
Synonyms	Chimeric hIgG1 Isotype Control
Clone & Isotype	4F17m. Human IgG1-D265A kappa
Applications	An isotype-matched negative control for human IgG1 D265A 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.
Reactivity & Specificity	Low or no specific binding to human samples tested.
Source / Host	The in vivo grade recombinant chimeric human IgG1-D265A kappa isotype control mutant (chimeric hIgG1 D265A isotype control) was produced in mammalian cells.
Formulation & Conjugate	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	Chimeric Human IgG1-D265A 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 to -70°C as supplied.

Biological Description & Background

PA007188: Recombinant Chimeric Human IgG1-D265A Isotype Control Antibody (Clone: 4F17m), In Vivo Grade.

The in vivo grade recombinant chimeric human IgG1-D265A kappa isotype control mutant (chimeric hIgG1 D265A isotype control) was produced in mammalian cells.

A chimeric human IgG1 isotype control consists of murine variable regions and human IgG1 constant regions. The chimeric human IgG1 kappa isotype control and mutants such as Fc-silenced can be used in ELISA, Western blot (WB), the cell-based assay or animal model as the antibody negative control.

A number of chimeric hIgG1 isotype control mutants are available. Most of the therapeutic antibody drugs carry the natural human IgG1 constant regions. There are some engineered mutants in the IgG1 Fc fragment. Changes to the IgG Fc sequence including glycosylation sites (such as N297A or N297G) have been used to modulate Fc functions. Even a single mutation may have both enhancement and abrogation effects on Fc binding though multiple mutation combinations are commonly used. We generated chimeric hIgG1 isotype control mutants, the same mutations as those in the therapeutic antibodies and candidates because such human IgG1 isotype control mutants are needed when clients test their engineered antibody candidates. For example, P329G substitution combined with L234A L235A (hIgG1 LALAPG, Fc silenced) was shown to decrease effector functions by disrupting the Fc/Fc-gamma receptor interface. The silent Fc effector functions human IgG1 isotype controls are useful for in vivo use.

The isotype controls are normally used to differentiate any non-specific background signal from the specific antibody signal, including the immunogenicity if used in animals. Most in vivo functional grade human IgG antibodies are used in mice for in vivo studies. Besides the antibody Complementarity-Determining Regions (CDRs), two human or humanized variable regions including the one in the human or humanized IgG isotype control do not necessarily induce the same immune response in mice because in some cases, even one amino acid difference can make difference. Mouse variable regions can be used to show the potential immunogenicity induced by the human variable regions in the human or humanized IgG antibodies to test. Thus, in some cases, it is better to use the mouse variable region in the human IgG

isotype controls. We also produce and sell recombinant human IgG isotype controls from the popular mouse hybridoma clones, MOPC21 and C1.18.4, as well as recombinant human IgG1 kappa isotype controls against KLH, TNP, DNP, GST, HEL, His-tag, Flag, c-myc, HA, GFP, and unknown specificity.

Please contact us to ask for a quote for the Fc silenced chimeric human IgG1 isotype control mutants, chimeric hIgG1 isotype control and silent Fc mutants with Avi-, His-, and Flag-tags, and biotinylated chimeric hIgG1 isotype control and Fc silent mutants. A variety of conjugates (such as a fluorophore) with the chimeric human IgG1 isotype control and Fc effector-silent 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.usshelf.com/chimeric-human-igg1-d265a-isotype-control-antibody-pa007188/>
- **Order Phone:** 1-617-401-8149 | **Fax:** 1-617-606-5022
- **Support Email:** message@sydlabs.com