Human IgG4 (S228P) Isotype Control Antibody | PA007128

Catalog No.: PA007128 | **Isotype:** Human IgG4-S228P | **In Vivo Grade / Isotype Control**

Recombinant human IgG4 kappa isotype control mutants, hIgG4 S228P and SPLEPG, good for in vivo and in vitro studies. Low or no specific binding to human samples tested. Humanized variable regions and hIgG4 kappa constant regions. The chimeric versions and premium grade (endotoxin ≤ 0.05 EU/mg) are available. For human T cell research, Syd Labs OKT3 antibodies are also available.

Product Specifications

Catalog No.	PA007128
Product Name	In Vivo Grade Recombinant Human IgG4-S228P Isotype Control Antibody
Synonyms	hIgG4 Isotype Control, Human IgG4 Isotype Control, hIgG4 S228P, hIgG4 SPLEPG Mutant
Clone & Isotype	1R12 | Human IgG4-S228P
Applications	An isotype-matched negative control for human IgG4 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	Trinitrophenol (TNP).
Reactivity & Specificity	Trinitrophenol (TNP). Low or no specific binding to human samples tested.
Source / Host	The In Vivo Grade Recombinant Human IgG4-S228P Isotype Control Antibody was produced in CHO cells.
Formulation & Conjugate	0.2 uM filtered solution (1 mg/ml) of 1x PBS. Non-conjugated.
Endotoxin	Less than 1 EU/mg of protein as determined by LAL method. Endotoxin ≤ 0.05 EU/mg for PA007128.05, in vivo grade recombinant human IgG4-S228P isotype control antibody, premium grade (endotoxin ≤ 0.05 EU/mg).
Purity	**>95%** by SDS-PAGE under reducing conditions.
Shipping	The recombinant hIgG4 kappa isotype control and mutants are 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

PA007128: Recombinant Human IgG4 (S228P) Isotype Control Antibody (Clone: 1R12), In Vivo Grade.

The recombinant human IgG4-S228P kappa isotype control antibody (hIgG4 S228P isotype control) was produced in CHO cells.

The ideal recombinant human IgG4 isotype control antibody (hIgG4 S228P kappa isotype control) has low or no specific binding to any human sample, and humanized or completely human variable regions in addition to the human IgG4 S228P kappa constant regions. The human IgG4 kappa isotype control and mutants can be used in the cell-based assay or animal model as the antibody negative control when evaluating fully human, humanized, or chimeric antibodies.

The hIgG4 isotype control mutants were generated because the corresponding mutations had been introduced to some human IgG4 therapeutic antibody candidates. For example, S228P, an engineered mutation in the core hinge region, is used to prevent Fab-arm exchange in vivo of human IgG4 molecules; P329G substitution combined with S228P and L235E was shown to decrease effector functions by disrupting the Fc/Fc-gamma receptor interface. When clients test their engineered antibody candidates, the silent Fc effector function human IgG4 isotype controls are useful for in vivo use.

Welcome to contact us and ask for a quote for the engineered human IgG4 isotype control mutants, hIgG4 isotype control and Fc silenced mutants with Avi-, His-, and Flag-tags, and biotinylated hIgG4 isotype control and silent Fc mutants. A variety of conjugates with the human IgG4 isotype control and silent Fc effector function 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/human-igg4-s228p-isotype-control-pa007128/
- **Order Phone:** 1-617-401-8149 | **Fax:** 1-617-606-5022
- **Support Email:** message@sydlabs.com