

# Human IgG4 Isotype Control S228P (Kappa)

**Product Code:** ICH2257S228P-K

## More Information

**Target:** Hen Egg Lysozyme

**Concentration:** 5mg/ml

**Isotype:** Human IgG4 (S228P)-Kappa

**Host:** CHO Cells

**product name H2:** Human IgG4 Isotype Control S228P (Kappa)

## Product Specific Citations:

[Lee, KY et al. Development of a nanoparticle-based immunotherapy targeting CD137 for nasopharyngeal carcinoma treatment. Theranostics, 2026, 16\(1\), 17-36. 23](#)

**Buffer:** ICH3002

**Shipping Conditions:** Blue ice

**background:** This human IgG4 (S228P) isotype control with a kappa light chain offers a hinge-stabilised, subclass-matched negative reference for experiments employing IgG4-kappa test antibodies. The S228P substitution suppresses Fab-arm exchange, and the lack of relevant specificity allows the control to define background signal and gating limits in flow cytometry and functional assays. By reproducing the framework of the test antibody, it isolates scaffold effects from true target engagement. The reagent is low in endotoxin and suitable for in vivo use, and it is produced in scalable milligram to gram quantities for bulk and high-throughput research. Supplied for research use only.

**Specificity:** Human IgG4 with a S228P (Kappa) mutation

**Purification Method:** This monoclonal antibody was purified using Protein A



**Formulation:** Sterile, preservative-free, solution in PBS. BSA and Azide free.

**Purity:** >95% by SDS-PAGE

**Endotoxin:**  $\leq 1.0$  EU/mg as determined by the LAL method

**Storage:** This antibody is stable when stored at 2-8°C. For longer term storage (> 3 months) it is recommended to store this antibody at -20°C or -70°C.

**Applications:** Functional Assays

**Use:** Products are for research use only. Not for use in diagnostic or therapeutic procedures.