

## Technical Data Sheet

### Human IgG4 isotype control (S228P, L235E)

**Catalog Number:** 303101, 303102

**Size:** 25 ug, 100 ug

**Target Name:** Human IgG4 isotype control

**Regulatory Status:** RUO

#### Product Details

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**Clone:** 1016AH4M2

**Application:** FC

**Reactivity:** N/A

**Format:** Purified

**Isotype:** Human IgG4

**Antibody Type:** Monoclonal

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide

**Protein Concentration:** 0.5 mg/mL

**Storage&Handling:** Quick spin the vial after receiving. The antibody solution should be stored between 2°C and 8°C without dilution.

**Recommended Usage:** Use at concentrations comparable to those used for the target-specific antibody

**Release Date:** Dec-25

#### Background Information

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There are four IgG subclasses (IgG1, 2, 3, and 4) in humans, named in order of their abundance in serum (IgG1 being the most abundant). The measurement of immunoglobulin G can be a diagnostic tool for certain conditions. This clone carries the S228P mutation, which helps reduce half-antibody formation commonly seen in the IgG4 subclass. It also includes the L235E mutation, which minimizes unwanted side effects by silencing Fc-mediated immune responses.