
Product Data Sheet

Product Name: Human IgG1 kappa, Isotype Control

Cat. No.: GC63009

Chemical Properties

Cas. No.

Formula M.Wt 144.30 kDa

Solubility Storage store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Human IgG1 kappa, Isotype Control, a humanized monoclonal antibody, is an isotype control for human IgG1k antibody. Human IgG1 kappa, Isotype Control has similar structures and biological characteristics to human immunoglobulin G1 (IgG1), but lacks the ability to bind specific antigens. Human IgG1 kappa, Isotype Control (10µg/ml; 2-6h) did not affect NK cell-mediated cytotoxicity against Castration-Resistant Prostate Cancer (CRPC) cells or normal prostate epithelial cells. Human IgG1 kappa, Isotype Control (10mg/kg; i.p.; once every 4 days for a total of 4 doses) did not affect the survival of C4-2 or 22Rv1 xenograft mice and showed no antitumor activity. Therefore, Human IgG1 kappa, Isotype Control are often used as negative controls in experiments to rule out false positives^{[1][2]}.

References:

[1] Yunlong Cao, et al. Potent Neutralizing Antibodies against SARS-CoV-2 Identified by High-Throughput Single-Cell Sequencing of Convalescent Patients' B Cells. Cell. 2020 Jul 9;182(1):73-84.e16.

[2] Wang F, et al., TIGIT immune checkpoint blockade enhances immunity of human peripheral blood NK cells against castration-resistant prostate cancer. Cancer Lett. 2023 Aug 1;568:216300.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA