

Human IgG1 kappa Isotype Control

Cat. No. IgG1 kappa-03H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	CHO
Description	Human IgG1 kappa, Isotype Control is a human monoclonal antibody that is the isotype control of human IgG1 kappa antibody.
Form	Liquid, Colorless to light yellow
Molecular Mass	142.68 kDa
pH Value	6
Extinction Coefficient	1.51
Endotoxin	< 0.1 EU/mg
Purity	0.9971
In Vitro	Human IgG1 kappa, Isotype Control is commonly used as a negative control in experiments. It has a similar structure and biological properties to human immunoglobulin G1 (IgG1) but lacks specific antigen-binding capability. Human IgG1 kappa, Isotype Control (10 µg/mL, 2-6 h) does not enhance the activity of NK cells in

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	killing CRPC cells or normal prostate epithelial cells.
In Vivo	Human IgG1 kappa, Isotype Control (10 mg/kg, intraperitoneal injection, once every 4 days for a total of 4 doses) did not exhibit anti-tumor activity and had no effect on the survival time of mice in the C4-2 or 22RV1 xenograft models.
Storage	Store at -80 centigrade for 2 years. Aliquots should be stored at the same temperature after first use to avoid multiple freeze-thaws.
Storage Buffer	Supplied as a 0.2 µm filtered solution in Histidine and Arginine buffer containing 120mM NaCl, 0.02% Tween 80, pH6.0
Concentration	8.70 mg/mL
Shipping	Shipping with dry ice.
Reference	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.