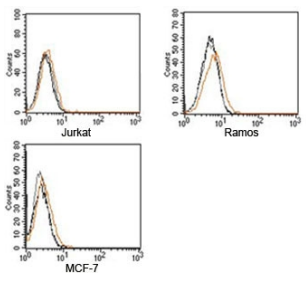
Rabbit IgG Isotype Control Polyclonal Antibody (N1001)

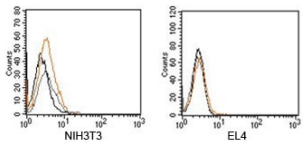
Catalog No.	Formulation	Size
N1001-100UG	0.5 mg/ml antibody in PBS with 0.05% sodium azide	100 ug
N1001-25UG	0.5 mg/ml antibody in PBS with 0.05% sodium azide	25 ug

Bulk quote request

Species Reactivity	NA
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Protein A purified IgG fraction
Buffer	1X PBS, pH 7.4
Gene ID	NA
RRID	AB_3753566
Applications	FACS: assay dependent IHC: assay dependent IF: assay dependent
Limitations	This **Rabbit isotype control antibody** is available for research use only.



Rabbit IgG Isotype Control Polyclonal Antibody Jurkat Ramos MCF-7 FACS. Flow cytometry analysis of human Jurkat, Ramos, and MCF-7 cells using Rabbit IgG Isotype Control Polyclonal Antibody demonstrates minimal nonspecific staining and low background signal across all tested cell lines. Overlay histograms compare fluorescence profiles of cells alone (black), cells incubated with secondary antibody only (gray), and cells stained with Rabbit IgG Isotype Control Polyclonal Antibody followed by secondary antibody detection (orange). The closely overlapping distributions indicate negligible nonspecific binding attributable to the rabbit isotype control antibody. This reagent serves as a negative control for assessment of background staining, secondary antibody-associated signal, and nonspecific antibody interactions in flow cytometry experiments.



Rabbit IgG Isotype Control Polyclonal Antibody NIH3T3 EL4 FACS. Flow cytometry analysis of mouse NIH3T3 and EL4 cells using Rabbit IgG Isotype Control Polyclonal Antibody demonstrates minimal nonspecific staining and low background signal across both tested cell lines. Overlay histograms compare fluorescence profiles of cells alone (black), cells incubated with secondary antibody only (gray), and cells stained with Rabbit IgG Isotype Control Polyclonal Antibody followed by secondary antibody detection (orange). The largely overlapping distributions indicate negligible nonspecific binding attributable to the rabbit isotype control antibody. This reagent serves as a negative control for assessment of background staining, secondary antibody-associated signal, and nonspecific antibody interactions in flow cytometry experiments.

Description

Rabbit IgG Isotype Control Polyclonal Antibody is designed as a negative control reagent for antibody-based immunoassays. Produced from purified normal rabbit immunoglobulin, this reagent retains the structural and biochemical characteristics of rabbit IgG while lacking specificity for known cellular or tissue antigens. By providing an isotype-matched control for rabbit polyclonal antibodies, it enables researchers to distinguish true antigen-specific staining from background signal resulting from nonspecific antibody interactions. Rabbit IgG antibodies are widely used in immunohistochemistry, immunofluorescence, flow cytometry, Western blotting, and related applications, making a reliable Rabbit IgG Isotype Control Polyclonal Antibody an important component of experimental validation workflows.

In many immunoassays, nonspecific staining can arise through Fc receptor interactions, binding to endogenous immunoglobulins, electrostatic interactions with cellular components, or other assay-dependent factors. The Rabbit IgG Isotype Control Polyclonal Antibody mirrors the immunoglobulin class and species origin of experimental rabbit antibodies without recognizing the intended target antigen. This allows investigators to measure background staining levels and determine whether observed signal reflects genuine antigen expression or nonspecific binding. Inclusion of a matched isotype control can substantially improve confidence in data interpretation, particularly when evaluating low-abundance targets or tissues prone to elevated background staining.

In immunohistochemistry applications, Rabbit IgG Isotype Control Polyclonal Antibody helps distinguish true tissue antigen localization from background staining associated with endogenous tissue components. In immunofluorescence experiments, the reagent supports evaluation of nonspecific fluorescence and assists in interpretation of staining patterns. Flow cytometry and FACS studies commonly employ isotype controls to assess nonspecific antibody binding and background signal, supporting accurate gating and analysis of cell populations. The reagent may also serve as a negative control in other antibody-based assays where assessment of nonspecific interactions is required.

Rabbit polyclonal antibodies are frequently used for detection of signaling proteins, cell surface markers, transcription factors, structural proteins, cancer biomarkers, and immune-related targets. Inclusion of a Rabbit IgG Isotype Control Polyclonal Antibody is particularly valuable when validating staining specificity, optimizing assay conditions, or comparing results across experiments. Common search terms including rabbit IgG isotype control, rabbit polyclonal isotype control antibody, rabbit negative control antibody, and rabbit IgG control antibody further reflect the widespread utility of this reagent in research laboratories.

NSJ Bioreagents provides Rabbit IgG Isotype Control Polyclonal Antibody as a dependable negative control for background staining assessment, assay optimization, and experimental validation. By helping researchers distinguish nonspecific signal from specific antibody binding, this reagent improves the accuracy, reproducibility, and scientific confidence of immunological, cellular, and molecular biology studies.

Researchers studying immune cell populations and performing antibody-based assay validation may also be interested in our Immunology Antibodies page featuring leukocyte markers, cytokines, immune regulators, and signaling pathway associated targets.

Application Notes

Generally to be used at the same concentration as the sample being controlled for.

Immunogen

This is purified naive rabbit sera and as such there was no immunogen.

Storage

Aliquot the rabbit antibody and store frozen at -20oC or colder to avoid repeated freeze-thaw cycles.

Alternate Names

Rabbit isotype controlRabbit IgG Isotype Control Polyclonal Antibody, Rabbit IgG Isotype Control Antibody, Rabbit Polyclonal Isotype Control Antibody, Rabbit IgG Control Antibody, Rabbit Negative Control Antibody, Rabbit Polyclonal Control Antibody, Rabbit IgG Isotype Matched Control Antibody, Rabbit IgG Isotype Control for Flow Cytometry

Copyright © NSJ Bioreagents. All rights reserved.