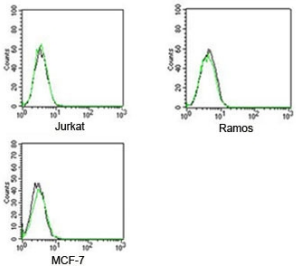
Rabbit IgG Isotype Control Polyclonal Antibody FITC Conjugate (N1001FITC)

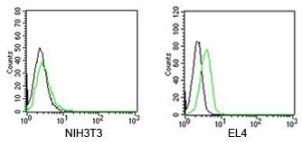
Catalog No.	Formulation	Size
N1001FITC-100UG	0.5 mg/ml antibody in PBS with 0.05% sodium azide	100 ug
N1001FITC-25UG	0.5 mg/ml antibody in PBS with 0.05% sodium azide	25 ug

Bulk quote request

Species Reactivity	NA
Format	FITC Conjugate
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Protein A Affinity Chromatography
Buffer	1X PBS, pH 7.4
Gene ID	NA
Applications	FACS: assay dependent IHC: assay dependent IF: assay dependent
Limitations	This Rabbit IgG Isotype Control Polyclonal Antibody FITC Conjugate is available for research use only.



Rabbit IgG Isotype Control Polyclonal Antibody FITC Conjugate Jurkat Ramos MCF-7 FACS. Flow cytometry analysis of human Jurkat, Ramos, and MCF-7 cells using Rabbit IgG Isotype Control Polyclonal Antibody FITC Conjugate demonstrates minimal background staining and negligible non-specific binding across all tested cell lines. Overlay histograms show fluorescence profiles of cells alone (black) and FITC-conjugated rabbit IgG isotype control antibody (green), with closely overlapping distributions indicative of low background signal. This reagent serves as a negative control for fluorescence-based experiments employing FITC-labeled rabbit polyclonal antibodies and supports assessment of non-specific antibody binding and background fluorescence.



Rabbit IgG Isotype Control Polyclonal Antibody FITC Conjugate NIH3T3 EL4 FACS. Flow cytometry analysis of mouse NIH3T3 and EL4 cells using Rabbit IgG Isotype Control Polyclonal Antibody FITC Conjugate demonstrates low background staining and minimal non-specific binding. Overlay histograms compare fluorescence profiles of cells alone (black) and FITC-conjugated rabbit IgG isotype control antibody (green), showing limited signal shift and low background fluorescence. This reagent serves as a negative control for fluorescence-based experiments employing FITC-labeled rabbit polyclonal antibodies and supports assessment of non-specific antibody binding and background fluorescence.

Description

Rabbit IgG Isotype Control Polyclonal Antibody FITC Conjugate serves as a negative control reagent for fluorescence-based immunoassays employing green fluorescence detection. Fluorescein isothiocyanate (FITC) is a widely used fluorochrome that produces bright green fluorescence readily detected by flow cytometry, immunofluorescence, and fluorescence microscopy platforms. By coupling the isotype control antibody to FITC, researchers can directly compare experimental rabbit antibodies labeled with the same fluorochrome, helping to ensure that measured signals reflect antigen-specific binding rather than nonspecific fluorescence or background interactions.

The FITC-conjugated Rabbit IgG Isotype Control antibody maintains the structural characteristics of rabbit immunoglobulin while lacking specificity for target antigens. This design enables detection of nonspecific binding to Fc receptors, cellular membranes, or tissue components. Because FITC-associated fluorescence and cellular autofluorescence can contribute to background signal in certain samples, inclusion of a fluorophore-matched isotype control allows investigators to quantify background staining and distinguish true antigen labeling from nonspecific interactions. The result is more accurate interpretation of fluorescence-based experimental data.

In flow cytometry and FACS applications, the FITC-conjugated Rabbit IgG Isotype Control antibody is useful for evaluating baseline fluorescence, nonspecific staining, and background signal. In immunofluorescence and fluorescence microscopy experiments, it helps identify nonspecific green fluorescence resulting from dye accumulation, cellular autofluorescence, or non-antigen-specific antibody binding. The FITC-conjugated control is also valuable in multicolor fluorescence experiments, where it provides a fluorophore-matched reference for assessing background fluorescence and supporting accurate data interpretation.

Researchers studying immune cell phenotyping, cellular activation, signal transduction, differentiation, and biomarker expression benefit from including this reagent in their experimental workflows. Without a FITC-conjugated isotype control, there is increased risk of overestimating antigen expression or misinterpreting background staining. Common search terms including rabbit IgG FITC isotype control antibody, FITC-conjugated rabbit isotype control antibody, and fluorescein isothiocyanate-conjugated rabbit control antibody further reflect its utility across multiple applications. By enabling accurate measurement of nonspecific fluorescence, this reagent improves confidence in fluorescence-based assay results.

NSJ Bioreagents validates Rabbit IgG Isotype Control Polyclonal Antibody FITC Conjugate for reproducibility and performance consistency across fluorescence-based applications. The reagent provides researchers with a dependable negative control for distinguishing nonspecific fluorescence from specific antibody labeling, improving the accuracy and reliability of experimental conclusions.

Researchers utilizing negative controls for immunohistochemistry, flow cytometry, immunofluorescence, and other antibody-based assays may also be interested in our Isotype Control Antibodies page featuring reagents for background staining assessment and assay validation.

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

Store the Rabbit IgG Isotype Control Polyclonal Antibody FITC Conjugate at 4oC. Do not freeze; protect from light.

Alternate Names

Rabbit IgG FITC Isotype Control Antibody, Rabbit Isotype Control Antibody FITC Conjugate, FITC Conjugated Rabbit IgG Isotype Control Antibody, FITC-Labeled Rabbit IgG Isotype Control Antibody, Rabbit IgG Negative Control Antibody FITC Conjugate, Rabbit IgG Isotype Control Antibody for Flow Cytometry, Rabbit IgG Isotype Control Antibody for Immunofluorescence, Fluorescein Isothiocyanate Rabbit IgG Isotype Control Antibody

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