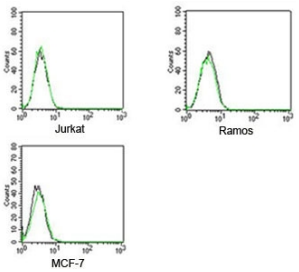
Rabbit IgG Isotype Control Polyclonal Antibody FITC Conjugate (N1001FITC)

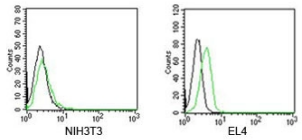
Catalog No.	Formulation	Size
N1001FITC-100UG	0.5 mg/ml antibody in PBS with 0.05% sodium azide	100 ug
N1001FITC-25UG	0.5 mg/ml antibody in PBS with 0.05% sodium azide	25 ug

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	Flow Cytometry : assay dependent Immunohistochemistry : assay dependent Immunofluorescence : assay dependent
Limitations	This **rabbit isotype control antibody** is available for research use only.



FACS testing of Rabbit IgG isotype control antibody FITC conjugate on human samples. Black=cells alone, green= isotype control antibody



FACS testing of Rabbit IgG isotype control antibody FITC conjugate on mouse samples. Black=cells alone, green= isotype control antibody

Description

The Rabbit IgG Isotype Control antibody conjugated to fluorescein isothiocyanate, or FITC, serves as a negative control reagent in fluorescence-based immunoassays. FITC provides a bright green emission that is readily detected on flow cytometers and fluorescence microscopes. By coupling the isotype control antibody to FITC, researchers can directly compare experimental rabbit antibodies conjugated to the same fluorochrome, ensuring that measured signals reflect antigen-specific binding rather than nonspecific fluorescence or background interactions.

The FITC labeled Rabbit Isotype Control antibody maintains the structural framework of rabbit immunoglobulin while lacking specificity for target antigens. This design enables it to reveal nonspecific binding to Fc receptors, cellular membranes, or tissue components. Because FITC itself can contribute to background signal in certain cells or tissues, using a matched FITC isotype control allows investigators to quantify that fluorescence and distinguish true antigen labeling from autofluorescence or nonspecific interactions. The result is a more accurate interpretation of experimental data.

Applications of the FITC-Rabbit IgG Isotype Control antibody include flow cytometry, where it establishes gating parameters and baseline fluorescence levels. In immunofluorescence microscopy, it highlights nonspecific green signals that may arise from dye accumulation or nonspecific antibody binding, ensuring that localized fluorescence corresponds to true antigen recognition. The FITC conjugated control is also valuable in multiplex experiments where multiple fluorophores are used, as it provides a reference for fluorescence compensation and spectral separation.

Researchers studying immune cell activation, signaling, or differentiation benefit from including this reagent in their protocols. Without a FITC conjugated isotype control, there is risk of overestimating antigen expression or misinterpreting background staining. Synonym phrases such as rabbit IgG FITC isotype control antibody and fluorescein conjugated rabbit control antibody improve discoverability for users seeking fluorochrome-matched controls. By ensuring precise measurement of nonspecific fluorescence, the Rabbit Isotype Control antibody conjugated to FITC improves data reliability in both basic research and applied studies.

NSJ Bioreagents validates the Rabbit IgG Isotype Control Polyclonal Antibody FITC Conjugate for reproducibility across flow cytometry and fluorescence microscopy platforms. With consistent performance, this reagent ensures that experimental conclusions are supported by accurate controls.

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 antibody at 4oC. Do not freeze; protect from light.

Alternate Names

Isotype control