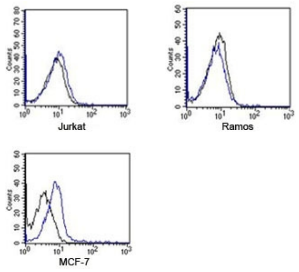
Rabbit IgG Isotype Control Polyclonal Antibody APC Conjugate (N1001APC)

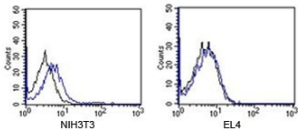
Catalog No.	Formulation	Size
N1001APC-100UG	0.5 mg/ml antibody in PBS with 0.05% sodium azide	100 ug
N1001APC-25UG	0.5 mg/ml antibody in PBS with 0.05% sodium azide	25

Bulk quote request

Species Reactivity	NA
Format	APC Conjugate
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 IgG isotype control antibody** is available for research use only.



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



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

Description

The Rabbit IgG Isotype Control antibody conjugated to allophycocyanin, or APC, is designed as a negative control reagent for immunoassays that employ far-red fluorescence detection. APC is a phycobiliprotein fluorochrome that provides bright emission in the far-red spectrum, with minimal overlap into shorter wavelengths. By coupling the isotype control antibody to APC, this reagent allows direct comparison with experimental rabbit antibodies conjugated to the same fluorophore, ensuring accurate discrimination between specific and nonspecific signals.

The Rabbit IgG Isotype Control Polyclonal Antibody APC Conjugate retains the immunoglobulin framework of rabbit IgG but lacks antigen specificity. This means it highlights nonspecific fluorescence caused by Fc receptor binding, dye accumulation, or endogenous autofluorescence. Because APC has strong fluorescence in the far-red channel, even low levels of nonspecific binding can distort data if not properly controlled. Using an APC conjugated isotype control allows researchers to quantify that background and apply proper gating and compensation in flow cytometry and microscopy.

Applications include flow cytometry, where the Rabbit IgG Isotype Control antibody conjugated to APC establishes baseline fluorescence and informs compensation strategies in multicolor panels. In immunofluorescence microscopy, the reagent highlights nonspecific far-red signals, enabling investigators to confirm that detected emission corresponds to true antigen labeling. The APC conjugated control is also useful in immunohistochemistry and tissue imaging, where it helps distinguish specific antibody binding from background fluorescence in complex tissue environments.

This control antibody is essential in experiments analyzing rare cell populations or low abundance antigens, where background fluorescence could be misinterpreted as specific signal. Synonym phrases such as rabbit IgG APC isotype control antibody and allophycocyanin conjugated rabbit control antibody broaden search relevance for different user preferences. By ensuring reproducible measurement of nonspecific fluorescence, the Rabbit IgG Isotype Control Polyclonal Antibody APC Conjugate strengthens the reliability of fluorescence-based experiments.

NSJ Bioreagents validates the Rabbit IgG Isotype Control antibody for robust performance across immunoassay platforms. By providing dependable background measurement, this reagent helps investigators distinguish true antigen specific signals from nonspecific fluorescence, ensuring the accuracy of data obtained through far-red detection channels.

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