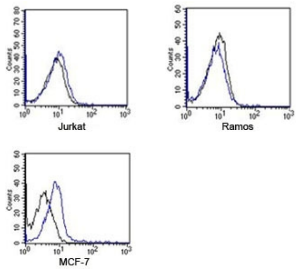
# Rabbit IgG Isotype Control Polyclonal Antibody APC Conjugate (N1001APC)

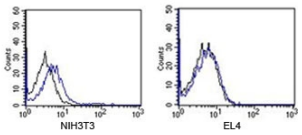
| Catalog No. | Formulation | Size |
|---|---|---|
| N1001APC-100UG | 0.5 mg/ml antibody in PBS with 0.05% sodium azide | 100 ug |
| N1001APC-25UG | 0.5 mg/ml antibody in PBS with 0.05% sodium azide | 25 ug |

**Bulk quote request**

| | |
|---|---|
| **Species Reactivity** | NA |
| **Format** | APC 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<br>IHC: assay dependent<br>IF: assay dependent |
| **Limitations** | This **Rabbit IgG isotype control antibody** is available for research use only. |




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




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

## Description

Rabbit IgG Isotype Control Polyclonal Antibody APC Conjugate is designed as a negative control reagent for fluorescence-based immunoassays employing far-red fluorescence detection. Allophycocyanin (APC) is a phycobiliprotein fluorochrome that produces bright fluorescence in the far-red spectrum and is widely used in flow cytometry, immunofluorescence, and fluorescence microscopy applications. By coupling the isotype control antibody to APC, researchers obtain a reagent that closely matches the optical properties of experimental rabbit antibodies labeled with the same fluorochrome, enabling accurate assessment of nonspecific fluorescence and background staining.

The APC-conjugated Rabbit IgG Isotype Control antibody retains the structural characteristics of rabbit immunoglobulin while lacking specificity for cellular antigens. This design allows detection of background signals resulting from Fc receptor interactions, nonspecific membrane binding, cellular autofluorescence, and fluorescence associated with the APC fluorochrome. Because APC produces intense far-red fluorescence, even low levels of nonspecific binding may appear as positive signal if a properly matched isotype control is not included. By quantifying this background, the APC-conjugated control supports accurate gating, data interpretation, and assay optimization.

In flow cytometry and FACS applications, the Rabbit IgG Isotype Control antibody conjugated to APC is useful for evaluating nonspecific staining and background fluorescence in multicolor panels. Because APC is frequently combined with other fluorochromes in complex experimental designs, inclusion of a fluorophore-matched isotype control can help distinguish true antigen-specific staining from background signal. In immunofluorescence and fluorescence microscopy applications, the reagent enables investigators to determine whether far-red fluorescent signals represent specific antigen detection or nonspecific antibody binding and cellular autofluorescence.

This reagent is particularly valuable in studies involving immune cell phenotyping, cellular activation, signal transduction, biomarker expression, and analysis of rare cell populations where accurate fluorescence quantitation is required. Common search terms including rabbit IgG APC isotype control antibody, APC-conjugated rabbit isotype control antibody, and allophycocyanin-conjugated rabbit control antibody further reflect its utility across multiple experimental platforms. By providing reliable measurement of background fluorescence, this reagent helps ensure that observed APC signals represent true target-specific staining.

NSJ Bioreagents validates Rabbit IgG Isotype Control Polyclonal Antibody APC 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 confidence of fluorescence-based immunoassay results.

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

## Alternate Names

Rabbit IgG APC Isotype Control Antibody, Rabbit Isotype Control Antibody APC Conjugate, APC Conjugated Rabbit IgG Isotype Control Antibody, APC-Labeled Rabbit IgG Isotype Control Antibody, Rabbit IgG Negative Control Antibody APC Conjugate, Rabbit IgG Isotype Control Antibody for Flow Cytometry, Rabbit IgG Isotype Control Antibody for Immunofluorescence, Allophycocyanin Rabbit IgG Isotype Control Antibody


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