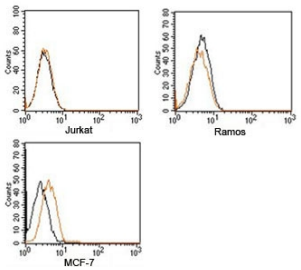
Rabbit IgG Isotype Control Polyclonal Antibody PE Conjugate (N1001PE)

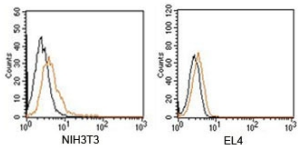
Catalog No.	Formulation	Size
N1001PE-100UG	0.5 mg/ml antibody in PBS with 0.05% sodium azide	100 ug
N1001PE-25UG	0.5 mg/ml antibody in PBS with 0.05% sodium azide	25

Bulk quote request

Species Reactivity	NA
Format	PE 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 PE conjugate on human samples. Black=cells alone, orange= isotype control antibody



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

Description

Rabbit IgG Isotype Control Polyclonal Antibody conjugated to phycoerythrin, or PE, is designed as a negative control reagent for immunoassays employing red-orange fluorescence detection. PE is a phycobiliprotein with exceptionally high molar absorptivity, making it one of the brightest fluorochromes available. By linking the isotype control antibody to PE, researchers obtain a reagent that mimics the optical properties of experimental rabbit antibodies labeled with the same fluorochrome, enabling precise assessment of nonspecific fluorescence.

This Rabbit IgG Isotype Control Polyclonal Antibody PE Conjugate preserves the structural characteristics of rabbit immunoglobulin but does not bind specifically to cellular antigens. Instead, it reports background signals generated by Fc receptor interactions, nonspecific binding to membranes, or PE related autofluorescence. Because PE emits intense fluorescence, even minimal nonspecific binding can appear as positive signal if a matched isotype control is not included. By quantifying that background, the PE conjugated control ensures accurate gating and interpretation in flow cytometry and microscopy.

In flow cytometry, the Rabbit IgG Isotype Control antibody conjugated to PE is critical for establishing compensation parameters in multicolor panels. PEÃ¢Â€Â™s emission spectrum overlaps with other fluorochromes, and proper compensation requires a fluorophore-matched isotype control. In immunofluorescence microscopy, the reagent allows investigators to evaluate whether bright red signals correspond to specific antigen labeling or to nonspecific background. The PE conjugated control is also useful in immunohistochemistry, where endogenous pigments can overlap with PE emission and require careful differentiation.

This reagent is particularly valuable in studies of immune cell phenotyping, signaling, and activation, where precise fluorescence quantitation is required. Synonym terms such as rabbit IgG PE isotype control antibody and phycoerythrin conjugated rabbit control antibody broaden product accessibility. By offering consistent detection of background fluorescence, the Rabbit IgG Isotype Control Polyclonal Antibody PE Conjugate helps researchers ensure that red-orange fluorescence signals represent true antigen expression.

NSJ Bioreagents validates the Rabbit IgG Isotype Control antibody conjugated to PE for reproducibility across applications. With this reagent, investigators can reliably separate nonspecific signal from specific labeling, improving the accuracy of fluorescence-based immunoassays.

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