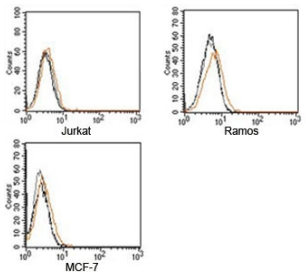
Rabbit Isotype Control Polyclonal Antibody (N1001)

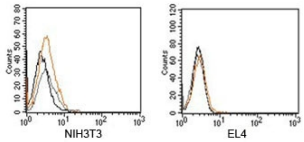
Catalog No.	Formulation	Size
N1001-100UG	0.5 mg/ml antibody in PBS with 0.05% sodium azide	100 ug
N1001-25UG	0.5 mg/ml antibody in PBS with 0.05% sodium azide	25 ug

Bulk quote request

Species Reactivity	NA
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Protein A purified IgG fraction
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 on human samples. Black=cells alone, gray=cells + secondary, orange=cells + isotype control antibody + secondary



FACS testing of Rabbit IgG isotype control antibody on mouse samples. Black=cells alone, gray=cells + secondary, orange=cells + isotype control antibody + secondary

Description

The Rabbit Isotype Control antibody is designed as a negative control reagent for immunoassays, providing a reliable benchmark to distinguish specific signal from background staining. In applications such as flow cytometry, immunohistochemistry, and immunofluorescence, antibodies can occasionally bind nonspecifically to Fc receptors, cell surfaces, or tissue components. The Rabbit Isotype Control antibody matches the immunoglobulin subclass and formulation of experimental antibodies but lacks antigen specificity. This ensures that any signal observed represents nonspecific binding, not true antigen recognition.

Isotype controls have long been a critical element in experimental design. By mirroring the structure and constant region of primary antibodies, they reveal background levels of fluorescence or staining that might otherwise be misinterpreted as biological signal. The Rabbit Isotype Control antibody is particularly useful in studies using rabbit monoclonal or polyclonal antibodies, where species-matched reagents are required. Its inclusion allows researchers to calculate accurate thresholds for positive signal detection and to interpret subtle expression differences with confidence.

This reagent can be applied across a broad range of assays. In flow cytometry, the Rabbit Isotype Control antibody accounts for fluorescence associated with nonspecific cell surface binding, autofluorescence, or Fc receptor interactions. In immunohistochemistry, it helps assess staining patterns that result from nonspecific adherence of antibodies to tissue matrices. Immunofluorescence experiments benefit similarly, as the control ensures that fluorescent signals correspond to true antigen localization rather than background interactions. Because it mimics the concentration and format of experimental antibodies, it provides an exact comparison for noise levels.

Synonym phrases such as rabbit immunoglobulin control antibody or rabbit IgG isotype control antibody expand product visibility while maintaining clear identity. By providing reproducible performance, the Rabbit Isotype Control antibody allows laboratories to validate staining specificity and strengthen data quality. NSJ Bioreagents validates the Rabbit Isotype Control antibody for use across standard immunoassay platforms, giving investigators confidence in their negative control design.

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

Aliquot the rabbit antibody and store frozen at -20oC or colder to avoid repeated freeze-thaw cycles.

Alternate Names

Rabbit isotype control