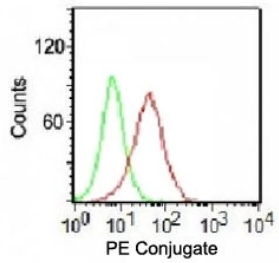
Ku70 + Ku80 PE Antibody for FACS / XRCC6 + XRCC5 Intracellular Flow Cytometry Antibody [clone LKAP1-1] (V7202PE)

Catalog No.	Formulation	Size
V7202PE-100T	500 ul at 0.1 mg/ml with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 Tests

Bulk quote request

Species Reactivity	Human
Format	PE Conjugate
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	LKAP1-1
Purity	Protein G purified
Buffer	1X PBS, pH 7.4
Gene ID	2547
Localization	Nuclear
Applications	Flow Cytometry : 5ul/test/10e6 cells in 100ul or 5ul/100ul whole blood
Limitations	This Ku70 + Ku80 antibody is available for research use only.



Ku70 + Ku80 PE Antibody for FACS / XRCC6 + XRCC5 Intracellular Flow Cytometry Antibody. Flow cytometry analysis of human K562 cells using Ku70 + Ku80 antibody clone LKAP1-1. Cells were fixed and permeabilized to enable intracellular detection of the nuclear Ku heterodimer. The red histogram (PE-conjugated Ku70 + Ku80 antibody) shows a clear rightward shift compared to the green histogram (isotype control), indicating specific staining of XRCC6/XRCC5. The signal demonstrates strong separation of positive and negative populations, consistent with intracellular detection of nuclear DNA repair proteins in permeabilized cells.

Description

Ku70 (XRCC6) and Ku80 (XRCC5) form a nuclear heterodimer that plays a central role in DNA double-strand break repair through the non-homologous end joining pathway. This Ku70 + Ku80 PE Antibody for FACS is specifically optimized for intracellular flow cytometry workflows, enabling reliable detection of the Ku heterodimer in fixed and permeabilized cells. Because Ku proteins are tightly associated with chromatin and localized within the nucleus,

intracellular access is required for accurate measurement, making this antibody particularly well suited for flow cytometry protocols targeting nuclear proteins.

Ku70 + Ku80 antibody, also referred to as XRCC6 antibody or XRCC5 antibody, recognizes ubiquitously expressed DNA repair proteins that can be analyzed across heterogeneous cell populations using flow cytometry. This Ku70 + Ku80 PE Antibody for FACS supports clear identification of Ku-positive cells, allowing quantitative assessment of DNA repair protein levels at the single-cell level. The PE conjugate provides strong fluorescence intensity, enabling robust signal detection and improved separation of positive and negative populations following intracellular staining.

The clone LKAP1-1 antibody delivers consistent intracellular detection across multiple cell types and experimental conditions. In permeabilized cell workflows, strong signal intensity is critical for resolving nuclear targets, and the PE fluorophore supports confident discrimination of specific staining from background. This makes the Ku70 + Ku80 PE Antibody for FACS particularly useful for studies involving DNA damage response, cell cycle analysis, and treatment-induced cellular stress, where changes in Ku protein levels may be subtle but biologically important.

Ku70 and Ku80 are members of the DNA repair protein family and function in coordination with DNA-dependent protein kinase to facilitate DNA end joining. Their nuclear localization and chromatin association require intracellular staining strategies for effective detection by flow cytometry. A PE-conjugated Ku70 + Ku80 antibody provides a targeted solution for researchers performing intracellular flow cytometry, supporting reliable quantification of XRCC6 and XRCC5 expression in permeabilized cells with strong signal intensity and clear population resolution.

Application Notes

Titering of the Ku70 + Ku80 PE Antibody for FACS / XRCC6 + XRCC5 Intracellular Flow Cytometry Antibody may be required for optimal performance.

Immunogen

A human cell nuclear fraction was used as the immunogen for this Ku70 + Ku80 PE Antibody for FACS / XRCC6 + XRCC5 Intracellular Flow Cytometry Antibody.

Storage

Store the PE-conjugated Ku70 + Ku80 antibody at 2-8oC. Conjugate is light sensitive, store in the dark.

Alternate Names

XRCC6 PE antibody, XRCC5 PE antibody, Ku70 PE FACS antibody, Ku80 PE flow cytometry antibody, Ku heterodimer PE antibody