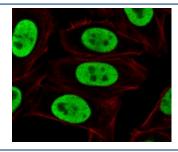


Ku70 + Ku80 Antibody [clone LKAP1-1] (V7202)

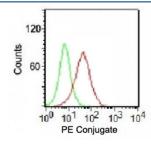
| Catalog No. | Formulation | Size |
|----------------|--|--------|
| V7202-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V7202-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V7202SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

Bulk quote request

| Species Reactivity | Human |
|--------------------|--|
| Format | Purified |
| 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 : 0.5-1ug/10^6 cells Immunofluorescence : 1-2ug/ml |
| Limitations | This Ku70 + Ku80 antibody is available for research use only. |



Immunofluorescent staining of paraformaldehyde fixed human HeLa cells with Ku70 + Ku80 antibody (clone LKAP1-1, green) and Phalloidin cell membrane stain (red).



Intracellular FACS testing of K562 cells with <u>PE conjugated Ku70 + Ku80 antibody</u>(red) and isotype control (green).

Description

Together, Ku70 and Ku80 make up the Ku heterodimer, which binds to DNA double-strand break ends and is required for the non-homologous end joining (NHEJ) pathway of DNA repair. It is also required for V(D)J recombination, which utilizes the NHEJ pathway to promote antigen diversity in the mammalian immune system. In addition to its role in NHEJ, Ku is also required for telomere length maintenance and subtelomeric gene silencing. Ku was originally identified when patients with systemic lupus erythematosus were found to have high levels of autoantibodies to the protein. [Wiki]

Application Notes

Titering of the Ku70 + Ku80 antibody may be required for optimal performance.

Immunogen

A human cell nuclear fraction was used as the immunogen for this Ku70 + Ku80 antibody.

Storage

Store the Ku70 + Ku80 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).