

PRODUCT DATA SHEET

Product: Anti-Ku (p80) mAb, clone 111

Cat. No.: MC-355 (100 µg)

Background:

The Ku autoantigen is a heterodimer of 70 kDa (p70) and ~80 kDa (p80) proteins. The p70/p80 dimer is important for the function of a 460 kDa DNA-dependent protein kinase that phosphorylates certain transcription factors, including Sp1, Oct-1, p53 and SV40 large T antigen *in vitro*. Ku protein plays a role in cell signaling, proliferation, DNA repair, replication, transcriptional activation and apoptosis.

Specificity:

Reacts with the p80 Ku antigen subunit. Recognizes an epitope between aa 610-705 of p80.

Species Reactivity:

Human and monkey. Does not react with bovine, rabbit, mouse or rat.

Cellular Localization:

Nuclear

Positive Control:

HeLa, T47D or BT474 cells.

Ig Isotype:

Mouse IgG_{1/κ}

Immunogen:

Human B cell nuclei from plasmacytoid 2p68 cells.

Molecular Weight of Antigen:

80 kDa

Format:

100 µg of monoclonal antibody at 200 µg/mL in 10 mM PBS, pH 7.4, with protein stabilizer and 0.09% sodium azide. Purified from ascites fluid by ammonium sulfate precipitation.

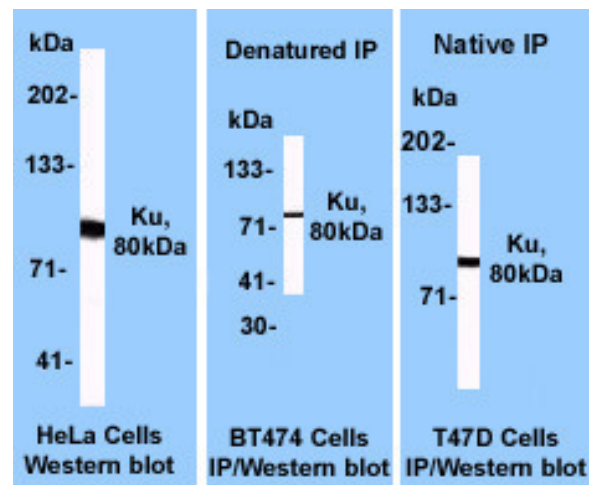
Storage:

Store at 4°C.

Applications and Suggested Dilutions:

- Flow cytometry
- Immunofluorescence
- Immunoprecipitation: (native & denatured)
Use 2 µg/mg protein lysate. Use Protein G.
- Western blot: Use at 0.5-1.0 µg/mL for 2 hrs at RT.

The optimal dilution for a specific application should be determined by the researcher.



Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. **KAMIYA BIOMEDICAL COMPANY** is not liable for any damage, personal injury, or economic loss caused by this product.