

PRODUCT DATA SHEET

Product: Anti-Ku (p70/p80), clone 162

Cat. No.: MC-256 (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.

Mol. Wt. Of Antigen:

70 kDa and 80 kDa

Ig Isotype:

Mouse IgG_{2a}

Immunogen:

Human B cell nuclei from plasmacytoid 2p68 cells.

Epitope:

A conformational epitope of p70/p80 dimer, which is destroyed during Western blotting.

Species Reactivity:

This antibody is known to react with human, monkey and *Xenopus*. Mouse and rat (immunoprecipitation only). Does not react with cow and rabbit.

Positive Controls:

HeLa cells and tonsil.

Cellular Localization:

Nuclear

Format:

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

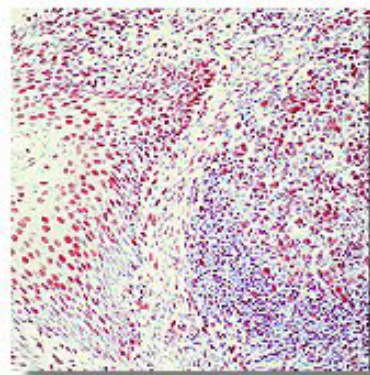
Storage:

Store at 4°C.

Applications and Suggested Dilutions:

- Flow Cytometry
- Immunofluorescence
- Immunoprecipitation: (Native only) Use antibody at 2 µg/mg protein lysate with Protein A.
- Immunohistology: (Formalin/paraffin) Use antibody at 1-2 µg/mL for 30 minutes at RT. [No special pretreatment is required for staining formalin-fixed, paraffin-embedded tissues]
- Western Blot: **Not Suitable**

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



Formalin-fixed, paraffin embedded human tonsil stained with MC-256

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.