



Category:
Monoclonal Antibodies

Cat. #
V10093

Product Name:
Ku (p70)

Description:

The Ku autoantigen is a heterodimer of 70kDa (p70) and ~80kDa (p80) proteins. The p70/p80 dimer is important for function of a 460kDa 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.

Immunogen:

Human placental extract designated as PSE1-PL

Application:

- Immunofluorescence
- Immunoprecipitation (Native and denatured)(Use Protein A) (Ab 2µg/mg protein lysate)
- Western Blotting (0.25-0.5 µg/ml for 2hrs at RT)
- Immunohistology (Formalinparaffin)(Ab 1-2g/ml for 30 minute at RT)
- Staining of formalin-fixed tissues is IMPROVED by boiling tissue sections in 10mM citrate buffer, pH 6.0.
- THE OPTIMAL DILUTION SHOULD BE DETERMINED BY THE INDIVIDUAL LAB

Species Reactivity:

Human, Monkey, and Xenopus. Mouse & Hamster (Western blotting only); Does not react with Bovine, Rabbit, and Sea Urchin. Others not tested.

Recommended Positive Control:

BT474, HEP-G-2 or HeLa Cells, Tonsil

Presentation:

20 mM tris-borate, 150 mM Sodium Chloride, dialyzed media RPMI 1640/D-MEM containing fetal bovine serum, BMC-6 carrier polysaccharides, carrier protein, and 0.05% Sodium Azide, pH 7.5.

Aliquoting Instructions:

In general, the 0.05M borate pH 8.0 containing 0.15M sodium chloride, 0.02% sodium azide, is a good diluent to use with most antibodies. When diluting for immunohistochemistry, ELISA or western blot, make the dilution in Primary Antibody Diluting Buffer.

Staining Procedure:

This antibody can be used on formalin-fixed, paraffin-embedded tissue sections. Prolonged fixation in buffered formalin can destroy the epitope. It is recommended that this product be used on frozen tissue sections or specimens. The optimal conditions should be determined by the individual laboratory.

Storage:

Store at 2~8o C for short term, freeze under -20oC for long term storage

Size: 0.2mg

Clone: U236 (ku15)

Isotype: IgG1

Host: Mouse

Form: purified

Mol. Wt. of Antigen: 70kD

Concentration: 0.5 mg/mL

Units On Hand: YES

References:

1. Ajmani AK, et. al. Journal of Experimental Medicine, 1995, 181(6):2049-58.
2. Wang J, et. al. Molecular Biology Reports, 1993, 18(1):15-28.

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