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AM00223PU-N
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Monoclonal Antibody to Ku70/Ku80 (XRCC6/XRCC5) - Purified

Alternate names: CTC75, CTC85, CTCBF, CTCBF, DNA-repair protein XRCC5, DNA-repair protein XRCC6, G22P1,

Ku-70, Ku70, Ku86, TLAA, TLAA, XRCC-6, XRCC6

Catalog No.: AM00223PU-N

Quantity: 0.1 mg
Concentration: 0.2 mg/ml

Background: The Ku autoantigen is a heterodimer of 70 kD (p70) and 80 kD (p80) proteins. The p70/p80

dimer is important for function of a 460 kD DNA-dependent protein kinase that

phosphorylates certain transcription factors, including Sp1, Oct-1, p53, and SV40 large Tantigen in vitro. Ku protein plays a role in cell signaling, proliferation, DNA repair,

replication, transcriptional activation, and apoptosis.

Host / Isotype: Mouse / IgG2a Recommended AM03096PU-N Isotype Controls:

Clone: 162

Immunogen: Human B-cell nuclei from Plasmacytoid 2p68 Cells.

Format: State: Liquid

Purification: IgG purified from the ascites fluid by ammonium sulfate precipitation **Buffer System:** 10 mM PBS with 0.09 % sodium azide as preservative and 0.2% BSA as

stabilizer.

Applications: Flow Cytometry. Immunofluorescence. Immunoprecipitation (Native): use Protein A and Ab

at 2 µg/mg protein lysate. Not suitable for Western Blotting. Immunohistology

(Formalin/paraffin): Ab 1-2µg/ml for 30 min at RT. Recommended positive control: HeLa

Cells, Tonsil.

Other applications not tested. Optimal dilutions are dependent on conditions and should

be determined by the user.

Specificity: Reacts with a conformational epitope present on p70/p80 dimer, which is destroyed

during Western blotting. Reacts with Mouse and Rat, but verfied in immunoprecipitation

only. Cellular Localization: nuclear. Mol. Wt. of Antigen: 70kD and 80kD.

Species: Human, Monkey, and Xenopus. Does not react with with Bovine and Rabbit

Other species not tested.

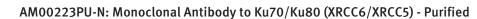
Storage: Store at 2-8°C for up to one month or in aliquots at -20°C for longer. Avoid repeated freeze

thaw cycles! Shelf life: one year from despatch.

General Readings: 1. Wang J, et. al. Molecular Biology Reports, 1993, 18(1):15-28.

2. Reeves WH, et. al. Journal of Experimental Medicine 1985 161(1):18-39.

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Pictures:

Formalin-fixed, paraffin-embedded human tonsil stained with Ku Ab (Cat. AM00223) using peroxidase-conjugate and AEC chromogen. Note nuclear staining of the cells.

