

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 T-antigen in vitro. Ku protein plays a role in cell signaling, proliferation, DNA repair, replication, transcriptional activation, and apoptosis.
Host / Isotype:	Mouse / IgG2a
Recommended Isotype Controls:	AM03096PU-N
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 verified 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.

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.

