

Ku-70 (Acetyl Lys331) Polyclonal Antibody

Catalog No :	YK0043
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC
Target :	Ku70/XRCC6
Fields :	>>Non-homologous end-joining
Gene Name :	XRCC6
Protein Name :	X-ray repair cross-complementing protein 6
Human Gene Id :	2547
Human Swiss Prot No :	P12956
Mouse Gene Id :	14375
Mouse Swiss Prot No :	P23475
Immunogen :	The antiserum was produced against synthesized Acetyl-peptide derived from human Ku70 around the Acetylation site of Lys331. AA range:291-340
Specificity :	Acetyl-Ku-70 (K331) Polyclonal Antibody detects endogenous levels of Ku-70 protein only when acetylated at K331.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000;IHC 1:50-300
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 70kD

Cell Pathway : Non-homologous end-joining;

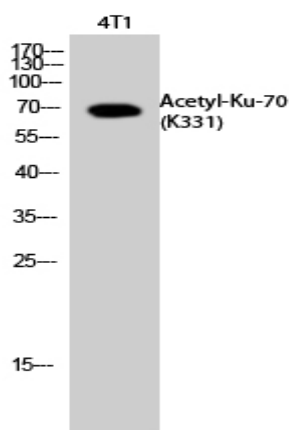
Background : The p70/p80 autoantigen is a nuclear complex consisting of two subunits with molecular masses of approximately 70 and 80 kDa. The complex functions as a single-stranded DNA-dependent ATP-dependent helicase. The complex may be involved in the repair of nonhomologous DNA ends such as that required for double-strand break repair, transposition, and V(D)J recombination. High levels of autoantibodies to p70 and p80 have been found in some patients with systemic lupus erythematosus. [provided by RefSeq, Jul 2008],

Function : developmental stage:Expression does not increase during promyelocyte differentiation.,disease:Individuals with systemic lupus erythematosus (SLE) and related disorders produce extremely large amounts of autoantibodies to p70 and p86. Existence of a major autoantigenic epitope or epitopes on the C-terminal 190 amino acids of p70 containing the leucine repeat. The majority of autoantibodies to p70 in most sera from patients with SLE seem to be reactive with this region.,function:Single stranded DNA-dependent ATP-dependent helicase. Has a role in chromosome translocation. The DNA helicase II complex binds preferentially to fork-like ends of double-stranded DNA in a cell cycle-dependent manner. It works in the 3'-5' direction. Binding to DNA may be mediated by p70. Involved in DNA nonhomologous end joining (NHEJ) required for double-strand break repair and V(D)J recombination. The Ku p70/p86

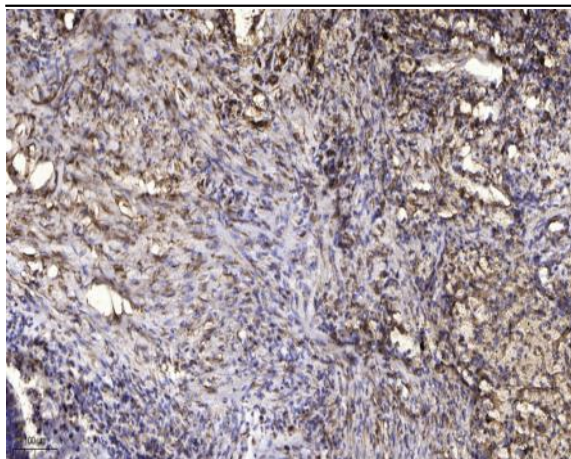
Subcellular Location : Nucleus . Chromosome .

Expression : Brain,Cervix carcinoma,Epithelium,Heart,Hepatocyte,Kidney,Liver,Lun

Products Images



Western Blot analysis of 4T1 cells using Acetyl-Ku-70 (K331) Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human Squamous cell carcinoma of lung. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).