Best Tools for immunology Research

Ku70 mouse mAb

Catalog No :	YM1400
Reactivity :	Human;Monkey
Applications :	WB;ICC;IP
Target :	Ku70/XRCC6
Fields :	>>Non-homologous end-joining
Gene Name :	xrcc6
Human Gene Id :	2547
Human Swiss Prot No :	P12956
Mouse Swiss Prot No :	P23475
Immunogen :	Purified recombinant human Ku70 protein fragments expressed in E.coli.
Specificity :	This antibody detects endogenous levels of Ku70 and does not cross-react with related proteins.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	wb dilution 1:1000 icc dilution 1:200
Purification :	The antibody was affinity-purified from mouse ascites 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 :	67kD

Cell Pathway : Non-homologous end-joining;

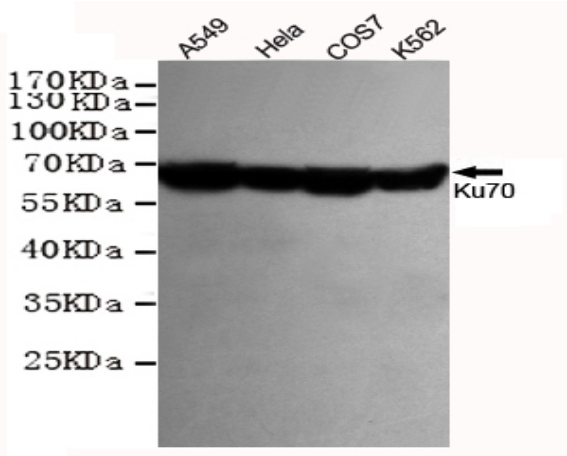
Background : The p70/p80 autoantigen is a nuclear complex consisting of two subunits with molecular masses of approximately 70 and 80 kDa. The complex functions as a single-stranded DNA-dependent ATP-dependent helicase. The complex may be involved in the repair of nonhomologous DNA ends such as that 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

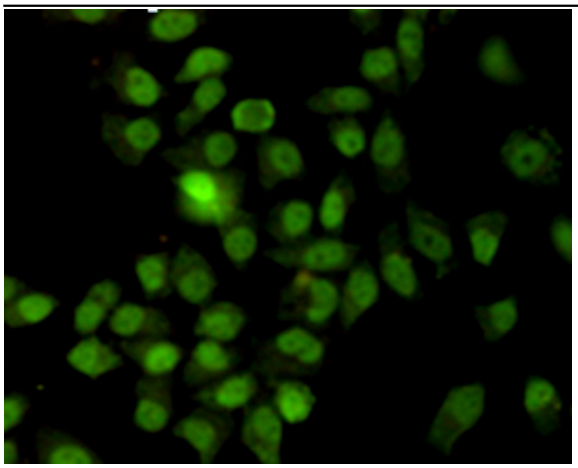
Subcellular Location : Nucleus . Chromosome .

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

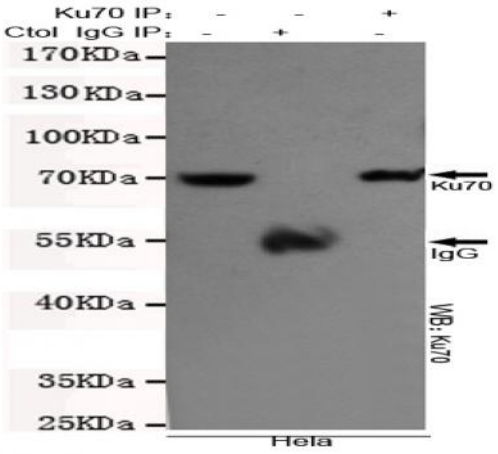
Products Images



Western blot detection of Ku70 in Hela,A549,COS7 and K562 cell lysates using Ku70 mouse mAb (1:1000 diluted).Predicted band size:70KDa.Observed band size:67KDa.



Immunocytochemistry staining of HeLa cells fixed with -20℃ Methanol and using anti-Ku70 antibody (dilution 1:200).



Immunoprecipitation analysis of Hela cell lysates using Ku70 mouse mAb.