

Ku80 mouse mAb

Catalog No :	YM1404
Reactivity :	Human;Monkey
Applications :	WB;IF;IP
Target :	Ku-80
Fields :	>>Non-homologous end-joining
Gene Name :	xrcc5
Human Gene Id :	7520
Human Swiss Prot No :	P13010
Mouse Swiss Prot No :	P27641
Immunogen :	Purified recombinant human Ku80 protein fragments expressed in E.coli
Specificity :	This antibody detects endogenous levels of Ku80 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 1:400 ip dilution 1:100. IF 1:50-200
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 :	86kD

Cell Pathway : Non-homologous end-joining;

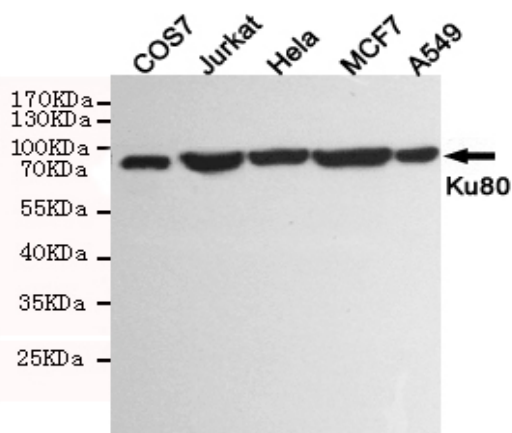
Background : The protein encoded by this gene is the 80-kilodalton subunit of the Ku heterodimer protein which is also known as ATP-dependant DNA helicase II or DNA repair protein XRCC5. Ku is the DNA-binding component of the DNA-dependent protein kinase, and it functions together with the DNA ligase IV-XRCC4 complex in the repair of DNA double-strand break by non-homologous end joining and the completion of V(D)J recombination events. This gene functionally complements Chinese hamster xrs-6, a mutant defective in DNA double-strand break repair and in ability to undergo V(D)J recombination. A rare microsatellite polymorphism in this gene is associated with cancer in patients of varying radiosensitivity. [provided by RefSeq, Jul 2008],

Function : developmental stage:Expression increases during promyelocyte differentiation.,disease:Individuals with systemic lupus erythematosus (SLE) and related disorders produce extremely large amounts of autoantibodies to p70 and p86.,domain:The EEXXXDDL motif is required for the interaction with catalytic subunit PRKDC and its recruitment to sites of DNA damage.,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 dimer acts as regulatory subunit of the DNA-dependent protein kinase complex DNA-PK by increasing the affinity of t

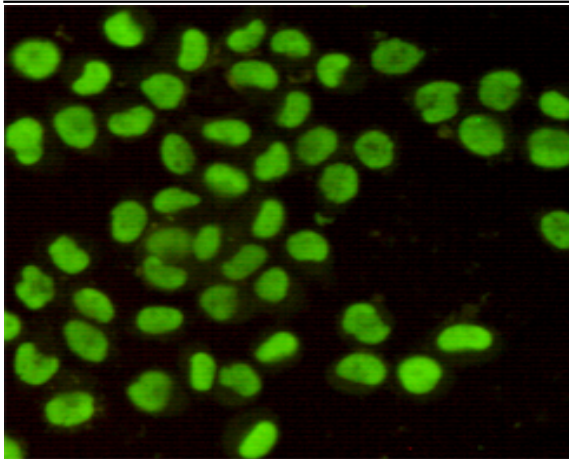
Subcellular Location : Nucleus . Nucleus, nucleolus . Chromosome .

Expression : Cervix carcinoma,Coronary artery,Heart,Neuroblastoma,Osteoblast,Thy

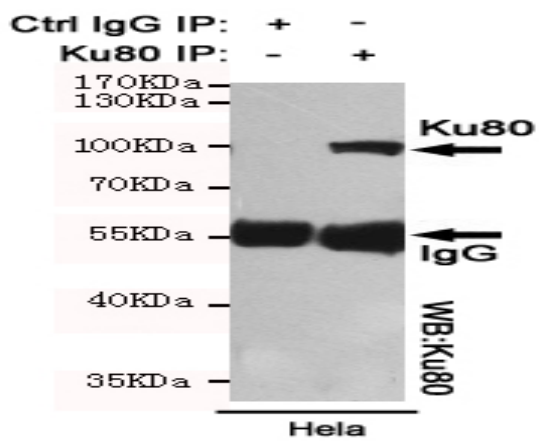
Products Images



Western blot detection of Ku80 in COS7, Jurkat, HeLa, MCF7 and A549 cell lysates using Ku80 mouse mAb (1:1000 diluted). Predicted band size:86KDa. Observed band size:86KDa.



Immunofluorescent analysis of HeLa cells using Ku80 mouse mAb (1:400).



Immunoprecipitation analysis of HeLa cell lysates using Ku80 mouse mAb.