Ku80 (8H1) Mouse mAb

db6224 **Package : 50μL 100μL**

Product Name : Ku80 (8H1) Mouse mAb
Cat.No.: db6224
Synonyms : KU80; KUB2; Ku86; NFIV; KARP1; KARP-1
Application : WB, ICC/IF, IP, ChIP
Reactivity : Human, Monkey
Host species : Mouse

Background	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 XRCC6. Involved in DNA non-homologous end joining (NHEJ) required for double-strand break repair and V(D)J recombination. The XRCC5/6 dimer acts as regulatory subunit of the DNA-dependent protein kinase complex DNA-PK by increasing the affinity of the catalytic subunit PRKDC to DNA by 100-fold. The XRCC5/6 dimer is probably involved in stabilizing broken DNA ends and bringing them together. The assembly of the DNA-PK complex to DNA ends is required for the NHEJ ligation step. In association with NAA15, the XRCC5/6 dimer binds to the osteocalcin promoter and activates osteocalcin expression. The XRCC5/6 dimer probably also acts as a 5'-deoxyribose-5-phosphate lyase (5'-dRP lyase), by catalyzing the beta-elimination of the 5' deoxyribose-5-phosphate at an abasic site near double-strand breaks. XRCC5 probably acts as the catalytic subunit of 5'-dRP activity, and allows to 'clean' the termini of abasic sites, a class of nucleotide damage commonly associated with strand breaks, before such broken ends can be joined. The XRCC5/6 dimer together with APEX1 acts as a negative regulator of transcription.
Immunogen	Purified recombinant human Ku80 protein fragments expressed in E.coli
Gene ID	7520
Swiss Prot	P13010
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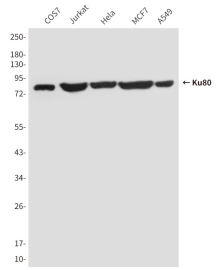
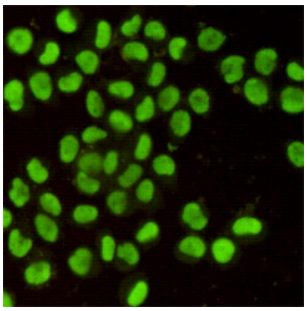
Application	WB, ICC/IF, IP, ChIP
Recommended dilution	WB: 1:500-1:1000 ICC/IF: 1:50-1:200 IP: 1:20

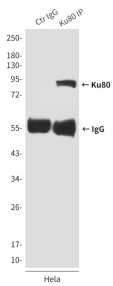
	ChIP: 1:20
Calculated MW	83 kDa
Observed MW	86 kDa
Host species	Mouse
Clonality	Monoclonal
Clonality No.	8H1-C3-G10
Isotype	IgG1
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in PBS, 50% Glycerol(pH 7.3), 0.02% sodium azide and 0.5% BSA . Stable for 12 months from date of receipt.



Western blot analysis of Ku80 in COS7, Jurkat, Hela, MCF-7 and A549 lysates using Ku80 antibody.



Immunofluorescence analysis of Ku80 (8H1) in Hela using Ku80 antibody.



Immunoprecipitation analysis of Ku80 (8H1) in Hela lysates using Ku8 antibody.