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## Summary

<b>Production Name</b>	Ku70 (7B1) Mouse Monoclonal Antibody
<b>Description</b>	Primary antibody
<b>Host</b>	Mouse
<b>Application</b>	WB,ICC/IF,IP,ChIP
<b>Reactivity</b>	Human,Monkey

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG1
<b>Clonality</b>	Monoclonal Antibody
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
<b>Purification</b>	Affinity Purified

## Immunogen

<b>Gene Name</b>	XRCC6 XRCC6; G22P1; X-ray repair cross-complementing protein 6; 5'-deoxyribose-5-phosphate lyase Ku70; 5'-dRP lyase Ku70; 70 kDa subunit of Ku antigen; ATP-dependent DNA helicase 2 subunit 1; ATP-dependent DNA helicase II 70 kDa subunit; CTC box-
<b>Alternative Names</b>	
<b>Gene ID</b>	2547
<b>SwissProt ID</b>	P12956

## Application

<b>Dilution Ratio</b>	WB: 1/500-1/1000 IF: 1/50-1/200 IP: 1/20 ChIP: 1/20
<b>Molecular Weight</b>	Calculated MW: 70 kDa; Observed MW: 67 kDa

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**Catalog #: AMM03519**



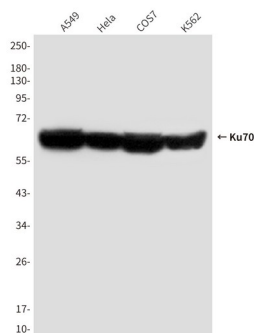
## Background

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.

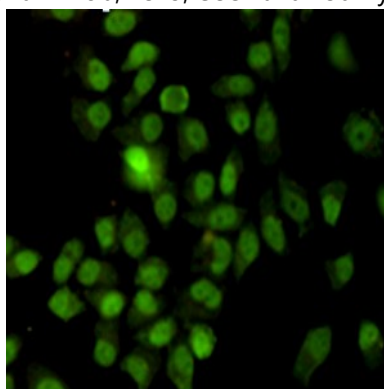
## Research Area

Epigenetics and Nuclear Signaling

## Image Data

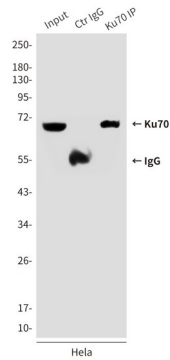


Western blot analysis of Ku70 in HeLa, A549, COS7 and K562 lysates using Ku70 antibody.



Immunocytochemistry analysis of Ku70 (7B1) in HeLa using Ku70 antibody.

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Immunoprecipitation analysis of Ku70 (7B1) in HeLa lysates using Ku7 antibody.

**Note**

For research use only.