**Product Name: Ku70 (6H10) Mouse Monoclonal Antibody**
**Catalog #: AMM03673**

## Summary

| | |
|---|---|
| **Production Name** | Ku70 (6H10) Mouse Monoclonal Antibody |
| **Description** | Primary antibody |
| **Host** | Mouse |
| **Application** | WB,ICC/IF |
| **Reactivity** | Human |

## Performance

| | |
|---|---|
| **Conjugation** | Unconjugated |
| **Modification** | Unmodified |
| **Isotype** | IgG2b |
| **Clonality** | Monoclonal Antibody |
| **Form** | Liquid |
| **Storage** | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| **Buffer** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3. |
| **Purification** | Affinity Purified |

## Immunogen

| | |
|---|---|
| **Gene Name** | XRCC6 |
| **Alternative Names** | 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- |
| **Gene ID** | 2547 |
| **SwissProt ID** | P12956 |

## Application

| | |
|---|---|
| **Dilution Ratio** | WB: 1/500-1/1000 IF: 1/50-1/200 |
| **Molecular Weight** | Calculated MW: 70 kDa; Observed MW: 70 kDa |

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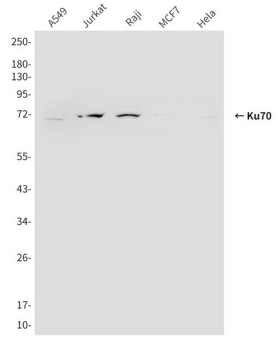
## Background

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.

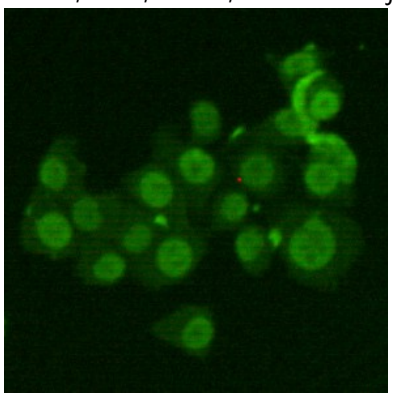
## Research Area

Epigenetics and Nuclear Signaling

## Image Data




Western blot analysis of Ku70 in Hela, A549, MCF-7, Jurkat and Raji lysates using Ku70 antibody.



Immunocytochemistry analysis of Ku70 (6H10) in HeLa using Ku70 antibody.

## Note

For research use only.