

# Ku80 Rabbit mAb

Catalog No.: A12338 **Recombinant** **3 Publications**

## Basic Information

### Observed MW

86kDa

### Calculated MW

83kDa

### Category

Primary antibody

### Applications

WB, IHC-P, IF/ICC, IP, ELISA

### Cross-Reactivity

Human

### CloneNo number

ARC0706

## 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.

## Recommended Dilutions

|               |   |
|---------------|---|
| <b>WB</b>     | 1:1000 - 1:6000   |
| <b>IHC-P</b>  | 1:200 - 1:800   |
| <b>IF/ICC</b> | 1:100 - 1:1000  |
| <b>IP</b>     | 0.5µg-4µg antibody for 200µg-400µg extracts of whole cells  |
| <b>ELISA</b>  | Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. |

## Contact

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## Immunogen Information

### Gene ID

7520

### Swiss Prot

P13010

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

KU80; KUB2; Ku86; NFIV; KARP1; KARP-1; Ku80

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

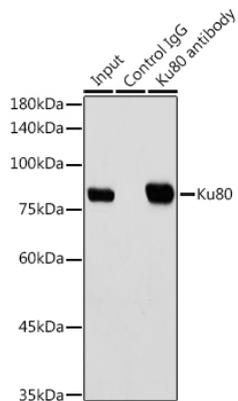
Affinity purification

### Storage

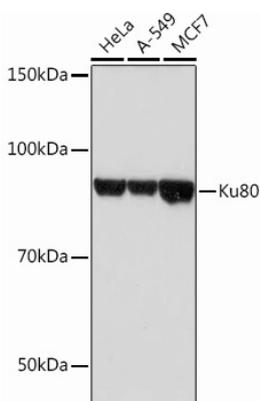
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

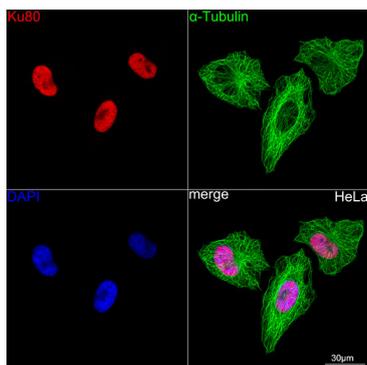
## Validation Data



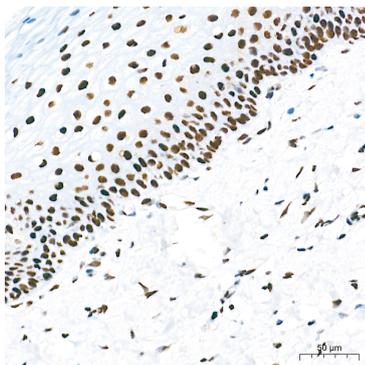
Immunoprecipitation analysis of 300  $\mu$ g extracts of HeLa cells using 3  $\mu$ g Ku80 antibody (A12338). Western blot was performed from the immunoprecipitate using Ku80 antibody (A12338) at a dilution of 1:1000.



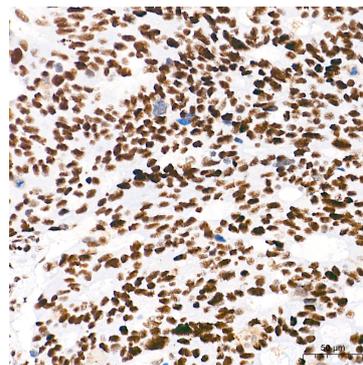
Western blot analysis of various lysates, using Ku80 Rabbit mAb (A12338) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 $\mu$ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 5s.



Confocal imaging of HeLa cells using Ku80 Rabbit mAb (A12338, dilution 1:100) (Red). The cells were counterstained with  $\alpha$ -Tubulin Mouse mAb (AC012, dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 60x.



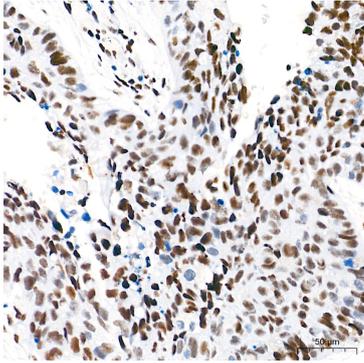
Immunohistochemistry analysis of paraffin-embedded Human cervix tissue using Ku80 Rabbit mAb (A12338) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



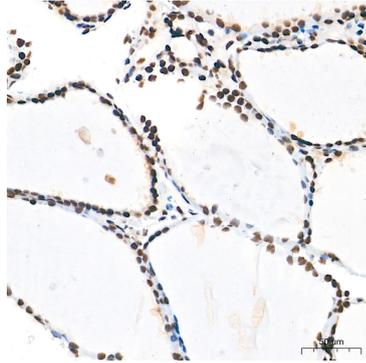
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using Ku80 Rabbit mAb (A12338) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

## Validation Data

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Immunohistochemistry analysis of paraffin-embedded Human lung cancer tissue using Ku80 Rabbit mAb (A12338) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human thyroid tissue using Ku80 Rabbit mAb (A12338) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.