

# Ku80 Rabbit pAb

Catalog No.: A5862SP **15 Publications**

## Basic Information

### Observed MW

86 kDa

### Calculated MW

83 kDa

### Category

Primary antibody

### Applications

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

### Cross-Reactivity

Human, Mouse, Rat

## 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

**WB** 1:2000 - 1:5000

**IP** 0.5 µg - 4 µg antibody for  
200 µg - 400 µg extracts  
of whole cells

**IF/ICC** 1:100 - 1:400

**IHC-P** 1:2000 - 1:8000

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions ( $\geq 1:10000$ ) a sequential dilution method is strongly recommended to ensure measurement accuracy.

## Immunogen Information

### Gene ID

7520

### Swiss Prot

P13010

### Immunogen

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, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide.

May contain 0.05% BSA as specified on the Certificate of Analysis.

## Contact

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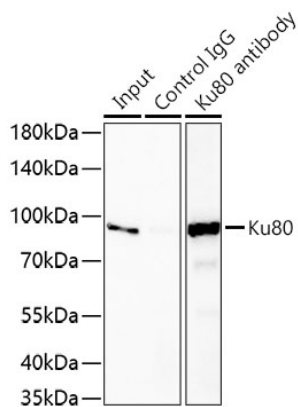
 | 400-999-6126

 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

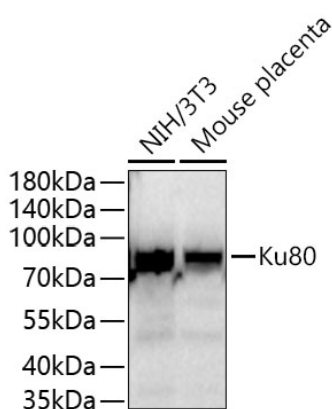
 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

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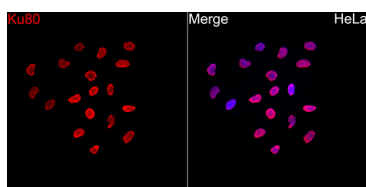
## Validation Data



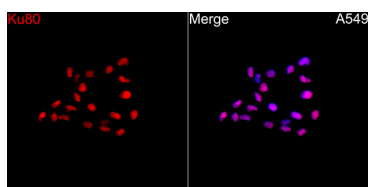
Immunoprecipitation of Ku80 from 300 µg extracts of A549 cells was performed using 2 µg of Ku80 Rabbit pAb (A5862SP). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Ku80 Rabbit pAb (A5862SP) at a dilution of 1:6000.



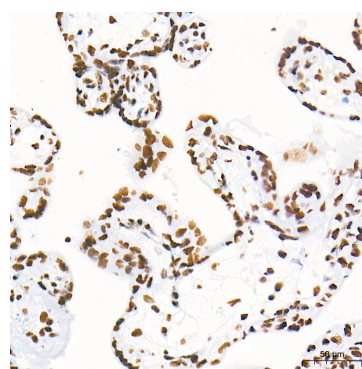
Western blot analysis of various lysates using Ku80 Rabbit pAb (A5862SP) at 1:5000 dilution incubated at room temperature for 1.5 hours.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25 µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 45 s.



Immunofluorescence analysis of HeLa using Ku80 Rabbit pAb (A5862SP) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



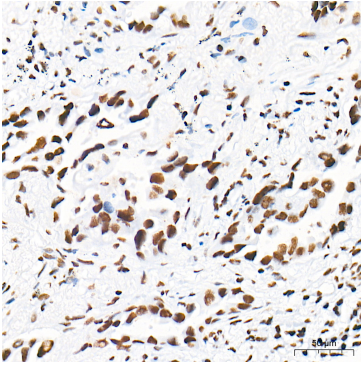
Immunofluorescence analysis of A549 using Ku80 Rabbit pAb (A5862SP) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of paraffin-embedded Human placenta tissue using Ku80 Rabbit pAb (A5862SP) at a dilution of 1:4000 (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 pAb (A5862SP) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.