

# Ku80 Rabbit pAb

**Catalog No.: A13369**

## Basic Information

### Observed MW

83kDa

### Calculated MW

83kDa

### Category

Primary antibody

### Applications

ELISA, WB, IHC-P

### Cross-Reactivity

Human

## 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** 1:500 - 1:2000

**IHC-P** 1:50 - 1:200

## Immunogen Information

### Gene ID

7520

### Swiss Prot

P13010

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 540-732 of human Ku80 (NP\_066964.1).

### Synonyms

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

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

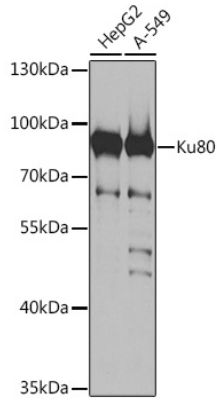
Affinity purification

### Storage

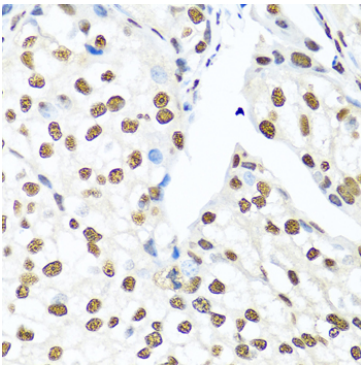
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.

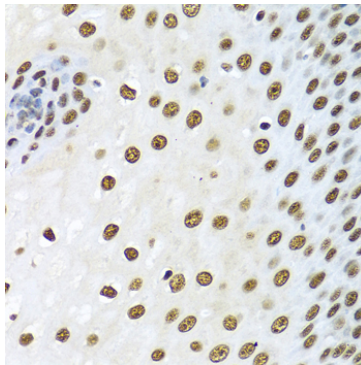
## Validation Data



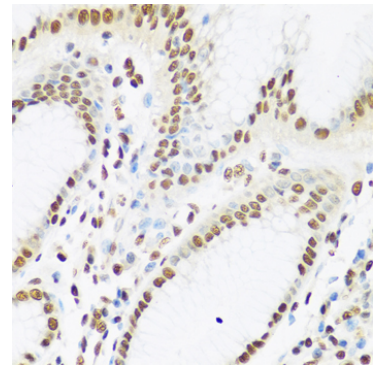
Western blot analysis of various lysates using Ku80 Rabbit pAb (A13369) at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 15s.



Immunohistochemistry analysis of paraffin-embedded human prostate cancer using Ku80 Rabbit pAb (A13369) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffin-embedded human esophagus using Ku80 Rabbit pAb (A13369) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffin-embedded human stomach using Ku80 Rabbit pAb (A13369) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.