

# Ku80 Rabbit pAb

Catalog No.: A5862 **12 Publications**

## Basic Information

**Observed MW**

86kDa

**Calculated MW**

83kDa

**Category**

Primary antibody

**Applications**

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

**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** 1:500 - 1:1000**IHC-P** 1:100 - 1:200**IF/ICC** 1:20 - 1:100**IP** 0.5µg-4µg antibody for  
200µg-400µg extracts of  
whole cells

## Immunogen Information

**Gene ID**

7520

**Swiss Prot**

P13010

**Immunogen**

Recombinant fusion protein containing a sequence corresponding to amino acids 543-732 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**

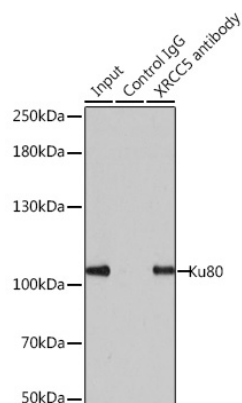
Affinity purification

**Storage**

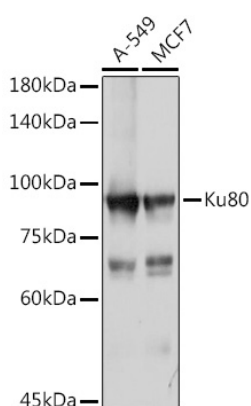
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

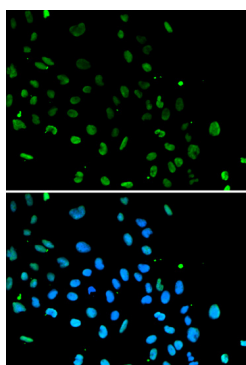
## Validation Data



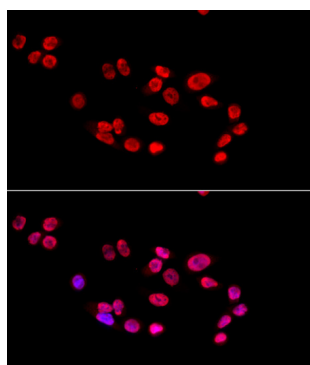
Immunoprecipitation analysis of 200 µg extracts of 293T cells using 1 µg Ku80 antibody (A5862). Western blot was performed from the immunoprecipitate using Ku80 antibody (A5862) at a dilution of 1:1000.



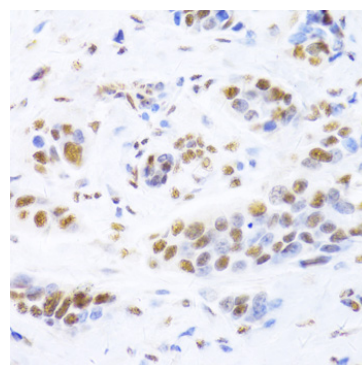
Western blot analysis of various lysates using Ku80 Rabbit pAb (A5862) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.



Immunofluorescence analysis of A549 cells using Ku80 Rabbit pAb (A5862). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



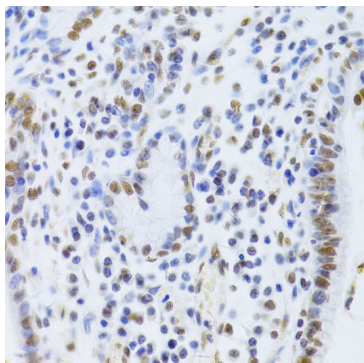
Immunofluorescence analysis of HeLa cells using Ku80 Rabbit pAb (A5862) at dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



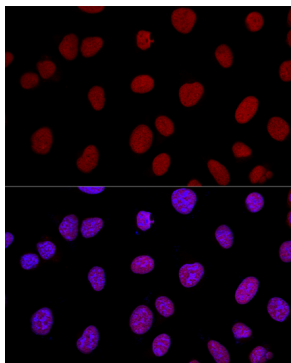
Immunohistochemistry analysis of Ku80 in paraffin-embedded human breast cancer using Ku80 Rabbit pAb (A5862) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.

## Validation Data

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Immunohistochemistry analysis of Ku80 in paraffin-embedded human gastric cancer using Ku80 Rabbit pAb (A5862) 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.



Confocal immunofluorescence analysis of U2OS cells using Ku80 Rabbit pAb (A5862) at dilution of 1:100. Blue: DAPI for nuclear staining.