Ku80 Rabbit pAb

Catalog No.: A5862 14 Publications



Basic Information

Observed MW

86kDa

Calculated MW

83kDa

Category

Primary antibody

Applications

WB,IHC-P,IF/ICC,IP,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 1:500 - 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

ELISA Recommended starting

concentration is 1 µg/mL.

Please optimize the
concentration based on
your specific assay
requirements.

Contact

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•	www.abclonal.com.cn

Immunogen Information

Gene ID7520

Swiss Prot
P13010

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

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

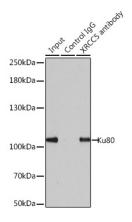
Product Information

SourceIsotypePurificationRabbitIgGAffinity purification

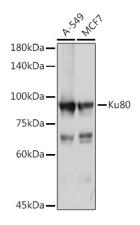
Storage

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

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



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



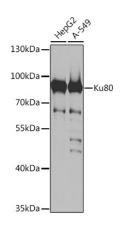
Western blot analysis of various lysates using Ku80 Rabbit pAb (A5862) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit lgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 10s.

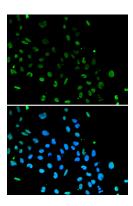


Western blot analysis of various lysates using Ku80 Rabbit pAb (A5862) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit lgG (H+L) (AS014) at 1:10000 dilution.

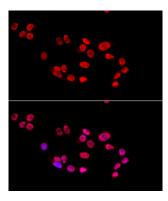
Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020).

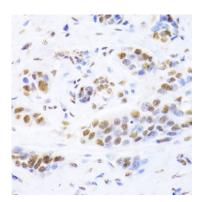
Exposure time: 15s.



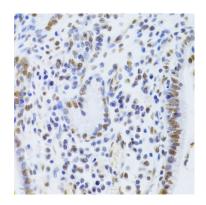
Immunofluorescence analysis of A549 cells using Ku80 Rabbit pAb (A5862). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



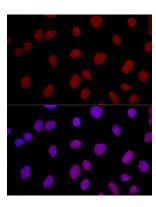
Immunofluorescence analysis of HeLa cells using Ku80 Rabbit pAb (A5862) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



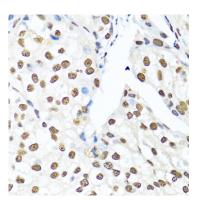
Immunohistochemistry analysis of paraffinembedded Human breast cancer using Ku80 Rabbit pAb (A5862) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



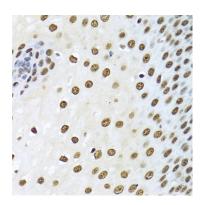
Immunohistochemistry analysis of paraffinembedded Human gastric cancer using Ku80 Rabbit pAb (A5862) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



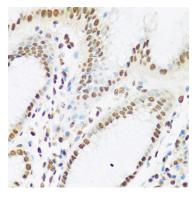
Confocal immunofluorescence analysis of U2OS cells using Ku80 Rabbit pAb (A5862) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of paraffinembedded Human prostate cancer using Ku80 Rabbit pAb (A5862) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Human esophagus using Ku80 Rabbit pAb (A5862) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Human stomach using Ku80 Rabbit pAb (A5862) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.