

## **Product datasheet for TA332970S**

## Product datasileet for TASS29703

## Ku80 (XRCC5) Rabbit Polyclonal Antibody

**Product data:** 

**Product Type:** Primary Antibodies

**Applications:** ELISA, ICC/IF, IHC, IP, WB

Recommended Dilution: 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.

Reactivity: Human, Mouse, Rat

Host: Rabbit Isotype: IgG

**Clonality:** Polyclonal

Formulation: Store at -20°C (regular) and -80°C (long term). Avoid freeze / thaw cycles. Buffer: PBS with

0.02% sodium azide, 50% glycerol, pH7.3.

**Concentration:** lot specific

**Purification:** Affinity purification

**Conjugation:** Unconjugated

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

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 83kDa

Gene Name: X-ray repair complementing defective repair in Chinese hamster cells 5

Database Link: NP 066964

Entrez Gene 22596 MouseEntrez Gene 363247 RatEntrez Gene 7520 Human

P13010



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Background:

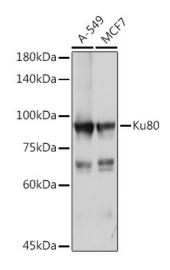
The protein encoded by this gene is the 80-kilodalton subunit of the Ku heterodimer protein which is also known as ATP-dependant DNA helicase II or DNA repair protein XRCC5. Ku is the DNA-binding component of the DNA-dependent protein kinase, and it functions together with the DNA ligase IV-XRCC4 complex in the repair of DNA double-strand break by nonhomologous end joining and the completion of V(D)| 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)| recombination. A rare microsatellite polymorphism in this gene is associated with cancer in patients of varying radiosensitivity.

Synonyms: KARP-1; KARP1; KU80; Ku86; KUB2; NFIV

**Protein Families:** Druggable Genome, Stem cell - Pluripotency

**Protein Pathways:** Non-homologous end-joining

## **Product images:**

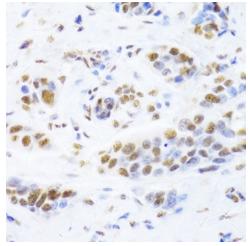


Western blot analysis of various lysates using Ku80 Rabbit pAb ([TA332970]) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 15s.

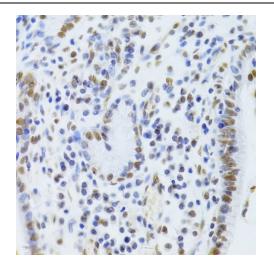


Western blot analysis of various lysates using Ku80 Rabbit pAb ([TA332970]) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST.

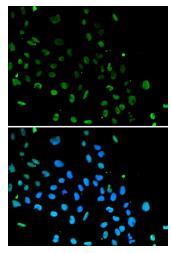
Detection: ECL Basic Kit (RM00020).

Exposure time: 10s.

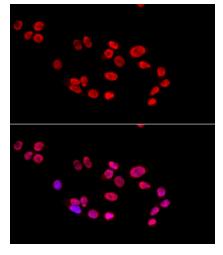




Immunohistochemistry analysis of paraffinembedded Human prostate cancer using Ku80 Rabbit pAb ([TA332970]) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.

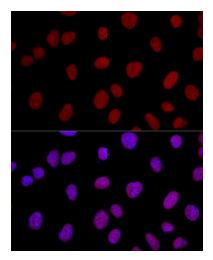


Immunohistochemistry analysis of paraffinembedded Human esophagus using Ku80 Rabbit pAb ([TA332970]) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.

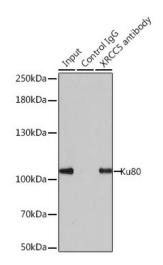


Immunohistochemistry analysis of paraffinembedded Human stomach using Ku80 Rabbit pAb ([TA332970]) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.





Immunohistochemistry analysis of paraffinembedded Human breast cancer using Ku80 Rabbit pAb ([TA332970]) 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 ([TA332970]) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.