

Product datasheet for **TA308827**

Ku80 (XRCC5) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, IP, WB
Recommended Dilution:	ICC/IF:1:100-1:1000; IHC:1:100-1:1000; WB:1:500-1:3000
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant fragment corresponding to a region within amino acids 315 and 593 of Ku80 (Uniprot ID#P13010)
Formulation:	0.1M Tris, 0.1M Glycine, 10% Glycerol (pH7). 0.01% Thimerosal was added as a preservative.
Concentration:	lot specific
Purification:	Purified by antigen-affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	83 kDa
Gene Name:	X-ray repair complementing defective repair in Chinese hamster cells 5
Database Link:	NP_066964 Entrez 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 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. [provided by RefSeq]

Synonyms:

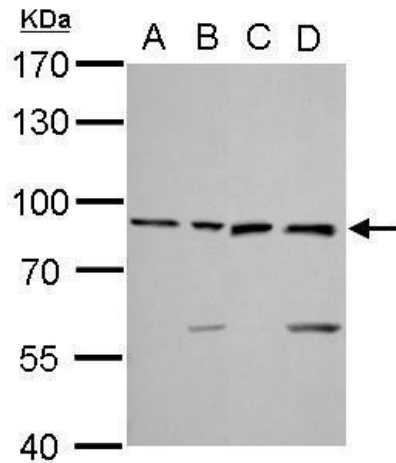
KARP-1; KARP1; KU80; Ku86; KUB2; NFIV

Protein Families:

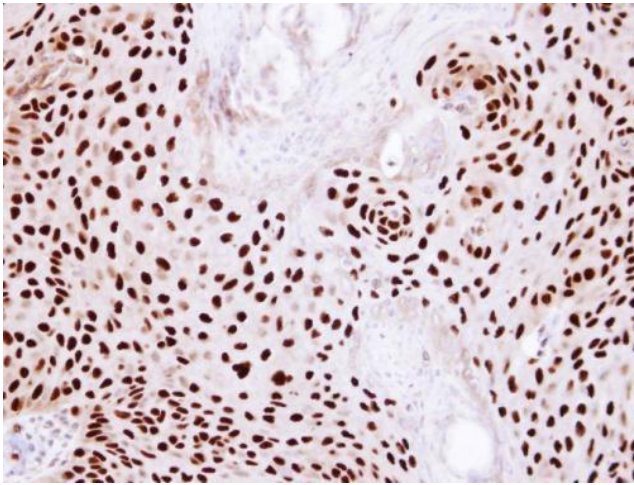
Druggable Genome, Stem cell - Pluripotency

Protein Pathways:

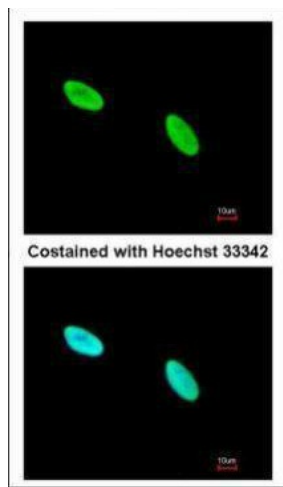
Non-homologous end-joining

Product images:


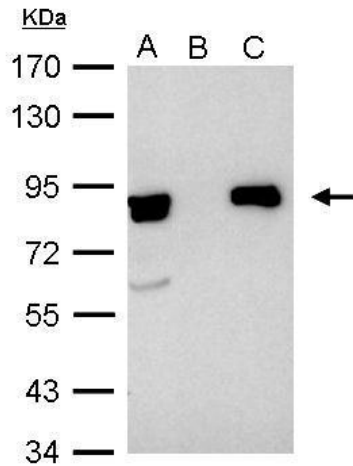
Ku80 antibody [N3C2], Internal detects XRCC5 protein by Western blot analysis. A. 30 ug 293T whole cell lysate/extract. B. 30 ug A431 whole cell lysate/extract. C. 30 ug HeLa whole cell lysate/extract. D. 30 ug HepG2 whole cell lysate/extract. 7.5 % SDS-P



Immunohistochemical analysis of paraffin-embedded Cal27 Xenograft, using Ku80 (XRCC5) (TA308827) antibody at 1:100 dilution.



Immunofluorescence analysis of methanol-fixed HeLa, using Ku80 (XRCC5) (TA308827) antibody at 1:200 dilution.



Ku80 (XRCC5) antibody immunoprecipitates Ku80 protein in IP experiments. IP Sample: 1000 ug HeLa whole cell lysate/extract A. 40 ug HeLa whole cell lysate/extract B. Control with 2.5 ug of preimmune rabbit IgG C. Immunoprecipitation of Ku80 protein by 2.5