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Product datasheet for TA332970

Ku80 (XRCC5) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, IHC, IP, WB
Recommended Dilution:	WB 1:500 - 1:2000;IF 1:20- 1:100
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human XRCC5
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 as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	732
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
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.

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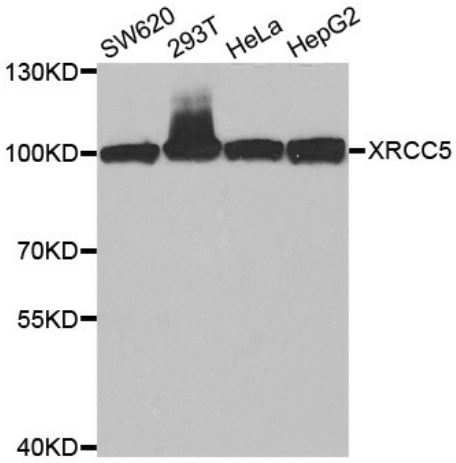
Synonyms: KARP-1; KARP1; KU80; Ku86; KUB2; NFIV

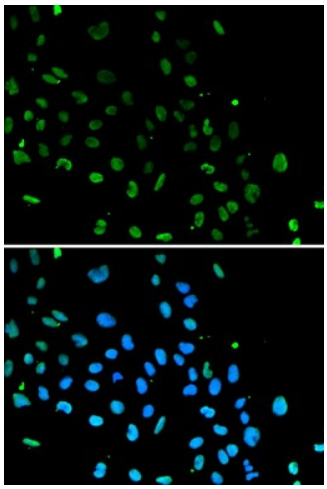
Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: Non-homologous end-joining

Product images:



Western blot analysis of extracts of various cell lines, using XRCC5 antibody.



Immunofluorescence analysis of A549 cell using XRCC5 antibody. Blue: DAPI for nuclear staining.