



Datasheet for ABIN6150308  
**anti-XRCC5 antibody (AA 540-732)**



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4 Images

Overview

Quantity:	100 µL
Target:	XRCC5
Binding Specificity:	AA 540-732
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This XRCC5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 540-732 of human Ku80 (NP_066964.1).
Sequence:	IEAKKKDQVT AQEIFQDNHE DGPTAKKLKT EQGGAHFSVS SLAEGSVTSV GSVNPAENFR VLVKQKKASF EEASNLQINH IEQFLDTNET PYFMKSIDCI RAFREEAIKF SEEQRFNNFL KALQEKVEIK QLNHFWEIVV QDGITLITKE EASGSSVTAE EAKKFLAPKD KPSGDAAVF EEGGDVDDLL DMI
Isotype:	IgG
Cross-Reactivity:	Human
Characteristics:	Polyclonal Antibodies

## Target Details

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Target:	XRCC5
Alternative Name:	XRCC5 ( <a href="#">XRCC5 Products</a> )
Background:	<p>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.,XRCC5,KARP-1,KARP1,KU80,KUB2,Ku86,NFIV,Epigenetics &amp; Nuclear Signaling,DNA Damage &amp; Repair,RNA Binding,XRCC5</p>
Molecular Weight:	82 kDa
Gene ID:	7520
UniProt:	<a href="#">P13010</a>
Pathways:	<a href="#">DNA Damage Repair</a>

## Application Details

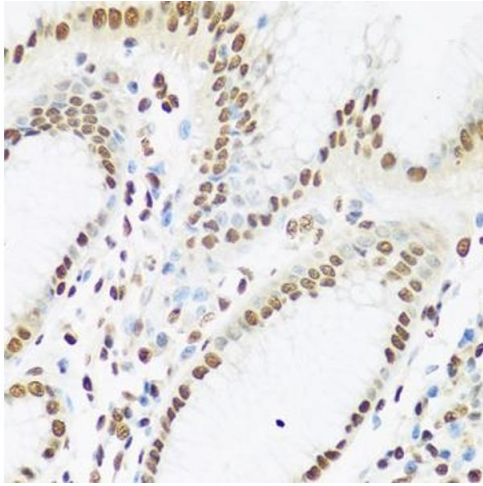
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Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200
Restrictions:	For Research Use only

## Handling

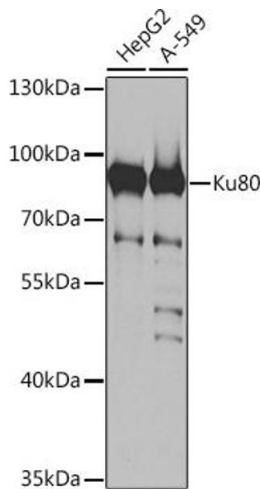
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Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



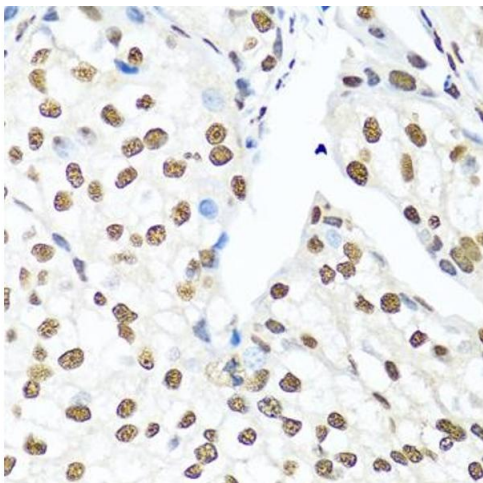
### Immunohistochemistry

**Image 1.** Immunohistochemistry of paraffin-embedded human stomach using Ku80 antibody (ABIN6130932, ABIN6150308, ABIN6150310 and ABIN6217336) 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.



### Western Blotting

**Image 2.** Western blot analysis of extracts of various cell lines, using Ku80 antibody (ABIN6130932, ABIN6150308, ABIN6150310 and ABIN6217336) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 15s.



### Immunohistochemistry

**Image 3.** Immunohistochemistry of paraffin-embedded human prostate cancer using Ku80 antibody (ABIN6130932, ABIN6150308, ABIN6150310 and ABIN6217336) 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.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6150308.