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Datasheet for ABIN7180287  
**anti-XRCC5 antibody (C-Term)**

2 Images

Overview

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

Product Details

Immunogen:	Synthesized peptide derived from C-terminal of Human XRCC5.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Target Details

Target:	XRCC5
Alternative Name:	XRCC5 ( <a href="#">XRCC5 Products</a> )
Background:	Background: Single-stranded DNA-dependent ATP-dependent helicase. Has a role in

chromosome translocation. The DNA helicase II complex binds preferentially to fork-like ends of double-stranded DNA in a cell cycle-dependent manner. It works in the 3'-5' direction. Binding to DNA may be mediated by XRCC6. Involved in DNA non-homologous end joining (NHEJ) required for double-strand break repair and V(D)J recombination. The XRCC5/6 dimer acts as regulatory subunit of the DNA-dependent protein kinase complex DNA-PK by increasing the affinity of the catalytic subunit PRKDC to DNA by 100-fold. The XRCC5/6 dimer is probably involved in stabilizing broken DNA ends and bringing them together. The assembly of the DNA-PK complex to DNA ends is required for the NHEJ ligation step. In association with NAA15, the XRCC5/6 dimer binds to the osteocalcin promoter and activates osteocalcin expression. The XRCC5/6 dimer probably also acts as a 5'-deoxyribose-5-phosphate lyase (5'-dRP lyase), by catalyzing the beta-elimination of the 5' deoxyribose-5-phosphate at an abasic site near double-strand breaks. XRCC5 probably acts as the catalytic subunit of 5'-dRP activity, and allows to 'clean' the termini of abasic sites, a class of nucleotide damage commonly associated with strand breaks, before such broken ends can be joined. The XRCC5/6 dimer together with APEX1 acts as a negative regulator of transcription.

Ming-Ni Lee, Clin. Cancer Res., Feb 2007, 13: 832 - 838.

PA Jeggo, PNAS, Jul 1992, 89: 6423.

Patrick Hayden, Blood (ASH Annual Meeting Abstracts), Nov 2006, 108: 3416.

Aliases: 86 kDa subunit of Ku antigen antibody, ATP dependent DNA helicase 2 subunit 2 antibody, ATP dependent DNA helicase II 80 kDa subunit antibody, ATP dependent DNA helicase II 86 Kd subunit antibody, ATP dependent DNA helicase II antibody, ATP-dependent DNA helicase 2 subunit 2 antibody, ATP-dependent DNA helicase II 80 kDa subunit antibody, CTC box binding factor 85 kDa antibody, CTC box-binding factor 85 kDa subunit antibody, CTC85 antibody, CTCBF antibody, DNA repair protein XRCC5 antibody, KARP 1 antibody, KARP1 antibody, Ku 80 antibody, Ku autoantigen 80 kDa antibody, Ku80 antibody, Ku86 antibody, Ku86 autoantigen related protein 1 antibody, KUB 2 antibody, KUB2 antibody, Lupus Ku autoantigen protein p86 antibody, NFIV antibody, Nuclear factor IV antibody, Thyroid lupus autoantigen antibody, Thyroid-lupus autoantigen antibody, TLA A antibody, X ray repair complementing defective repair in Chinese hamster cells 5 (double strand break rejoining) antibody, X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining) antibody, X-ray repair cross-complementing protein 5 antibody, Xray repair complementing defective repair in Chinese hamster cells 5 antibody, XRCC 5 antibody, XRCC5 antibody, XRCC5\_HUMAN antibody

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UniProt:

[P13010](#)

## Target Details

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Pathways: [DNA Damage Repair](#)

## Application Details

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Application Notes: WB:1:500-1:3000, IHC:1:50-1:100,

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.

Preservative: Sodium azide

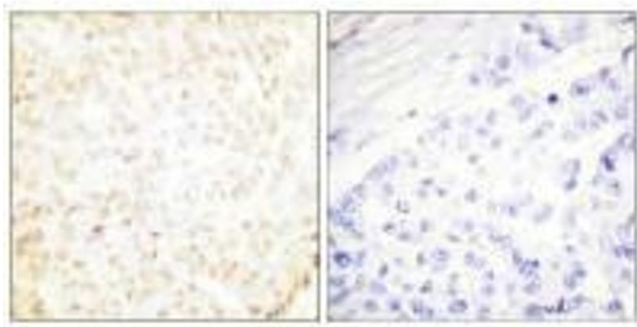
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

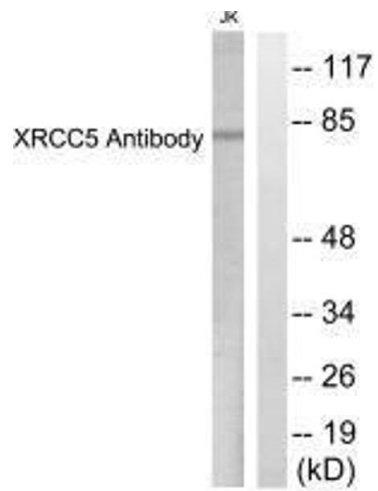
## Images

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### Immunohistochemistry

**Image 1.** Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue using XRCC5 antibody.



### Western Blotting

**Image 2.** Western blot analysis of extracts from Jurkat cells, using XRCC5 antibody.