

Datasheet for ABIN7175897
anti-XRCC5 antibody (AA 251-455)



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4 Images

Overview

Quantity:	100 µg
Target:	XRCC5
Binding Specificity:	AA 251-455
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This XRCC5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunoprecipitation (IP)

Product Details

Immunogen:	Recombinant Human X-ray repair cross-complementing protein 5 protein (251-455AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	XRCC5
Alternative Name:	XRCC5 (XRCC5 Products)
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 (PubMed:12145306, PubMed:20383123, PubMed:7957065, PubMed:8621488). 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 (PubMed:20383123). 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 (PubMed:8621488).

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, TLAA 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

UniProt: [P13010](#)

Pathways: [DNA Damage Repair](#)

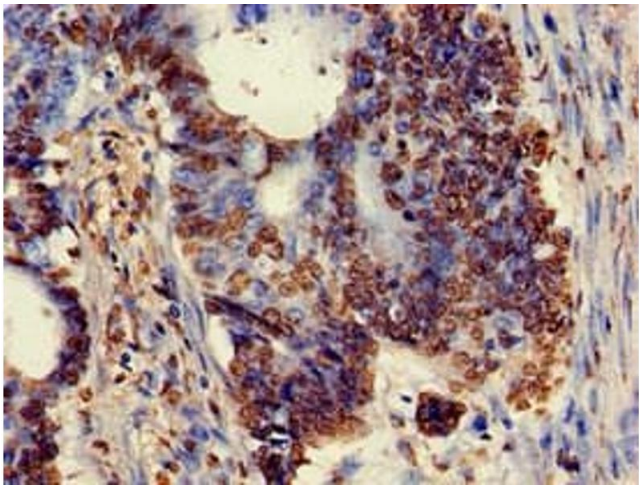
Application Details

Application Notes:	Recommended dilution: WB:1:500-1:5000, IHC:1:20-1:200, IP:1:200-1:2000,
Restrictions:	For Research Use only

Handling

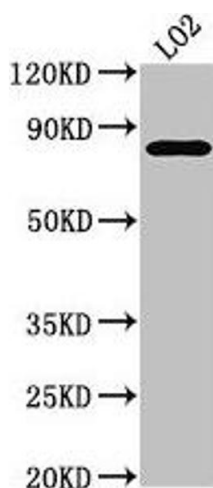
Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



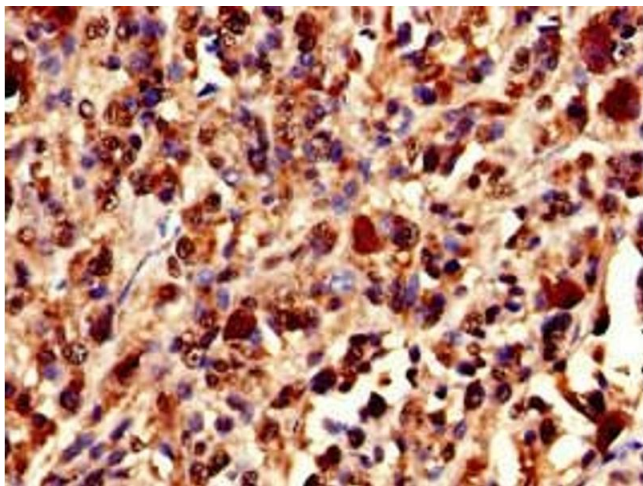
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human colon cancer using ABIN7175897 at dilution of 1:100



Western Blotting

Image 2. Western Blot Positive WB detected in: LO2 whole cell lysate All lanes: XRCC5 antibody at 3.5 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 83 kDa Observed band size: 83 kDa



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human melanoma using ABIN7175897 at dilution of 1:100

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7175897.