Datasheet for ABIN7175904

anti-XRCC5 antibody (AA 543-732)

3 Images

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Overview

Quantity:	100 µL
Target:	XRCC5
Binding Specificity:	AA 543-732
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This XRCC5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	Recombinant Human X-ray repair cross-complementing protein 5 protein (543-732AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antigen Affinity 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

Target Details

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.
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,

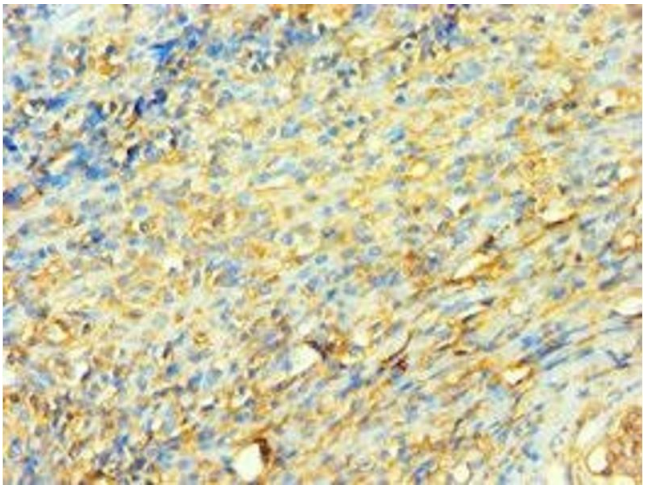
Application Details

Restrictions:	For Research Use only

Handling

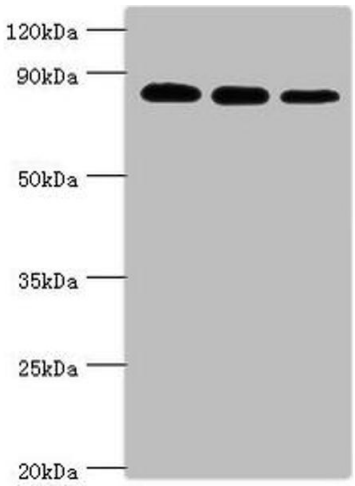
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



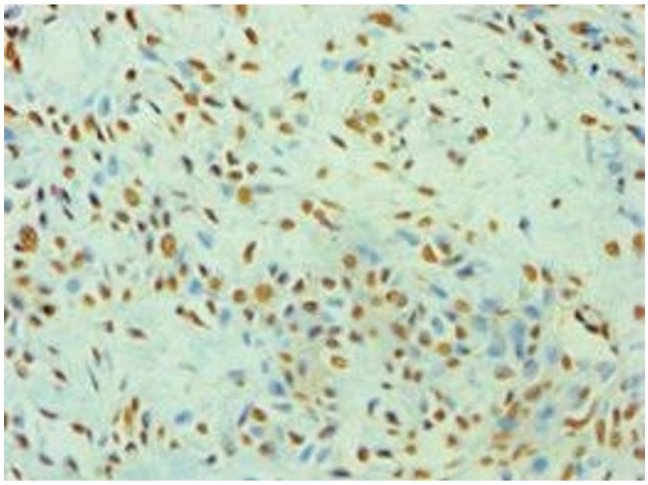
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human tonsil tissue using ABIN7175904 at dilution of 1:100



Western Blotting

Image 2. Western blot All lanes: X-ray repair cross-complementing protein 5 antibody at 2 µg/mL Lane 1: A549 whole cell lysate Lane 2: MCF-7 whole cell lysate Lane 3: 293T whole cell lysate Secondary Goat polyclonal to rabbit IgG at 1/10000 dilution Predicted band size: 83 kDa Observed band size: 83 kDa



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human breast cancer using ABIN7175904 at dilution of 1:100

