

Datasheet for ABIN6241745

anti-XRCC5 antibody**3** Images[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	XRCC5
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunocytochemistry (ICC)

Product Details

Immunogen:	Recombinant Protein
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Target Details

Target:	XRCC5
Alternative Name:	Ku80 (XRCC5 Products)
Background:	<p>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</p>

Target Details

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.

UniProt: [P13010](#)

Pathways: [DNA Damage Repair](#)

Application Details

Application Notes: IP: 1:500. WB: 1:1000. ICC: 1:400

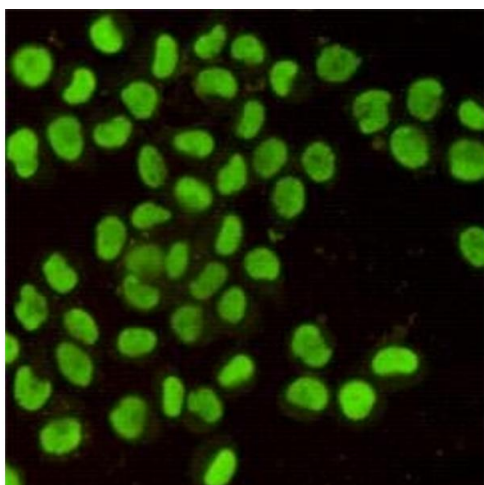
Restrictions: For Research Use only

Handling

Format: Liquid

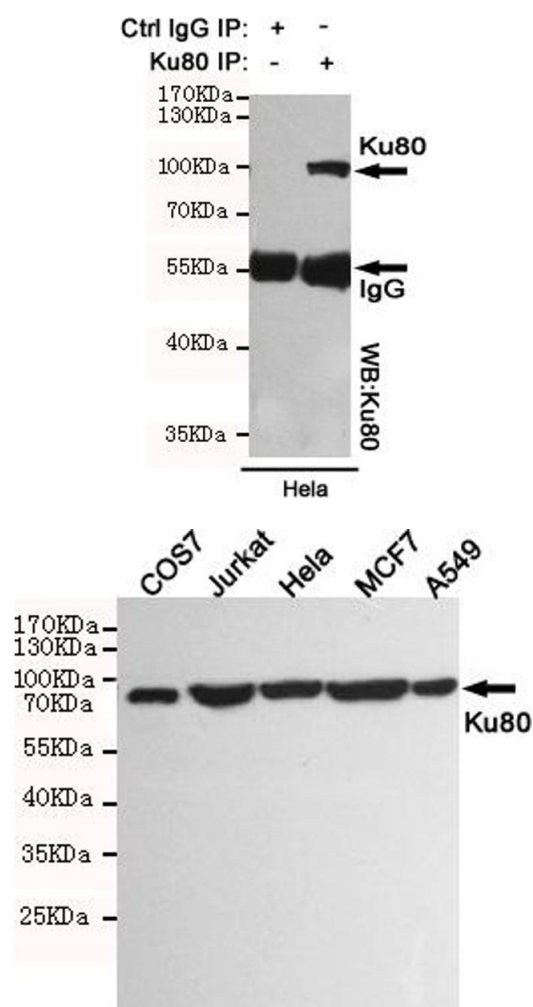
Storage: 4 °C,-20 °C

Images



Immunocytochemistry

Image 1. Immunofluorescent analysis of HeLa cells using Ku80 mouse mAb (1:400).



Immunoprecipitation

Image 2. Immunoprecipitation analysis of HeLa cell lysates using Ku80 mouse mAb.

Western Blotting

Image 3. Western blot detection of Ku80 in COS7, Jurkat, HeLa, MCF7 and A549 cell lysates using Ku80 mouse mAb (1:1000 diluted). Predicted band size: 86KDa. Observed band size: 86KDa.