

Datasheet for ABIN652244

anti-XRCC6 antibody (AA 432-461)



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3 Images

Overview

Quantity:	400 µL
Target:	XRCC6
Binding Specificity:	AA 432-461
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This XRCC6 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS)

Product Details

Immunogen:	This Ku70 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 432-461 amino acids from the Central region of human Ku70.
Clone:	RB20014
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	XRCC6
Alternative Name:	Ku70 (XRCC6 Products)

Target Details

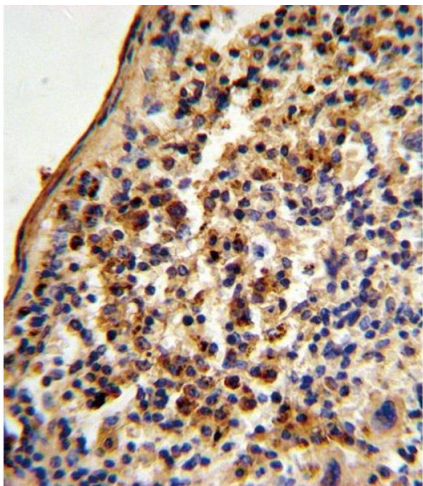
Background:	Ku70 is a single stranded DNA-dependent ATP-dependent helicase. It has a role in chromosome translocation. The DNA helicase II complex binds preferentially to fork-like ends of double-stranded DNA in a cell cycle-dependent manner. It works in the 3'-5' direction. Binding to DNA may be mediated by p70. It is involved in DNA nonhomologous end joining (NHEJ) required for double-strand break repair and V(D)J recombination. The Ku p70/p86 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 Ku p70/p86 dimer is probably involved in stabilizing broken DNA ends and bringing them together.
Molecular Weight:	69843
Gene ID:	2547
NCBI Accession:	NP_001460
UniProt:	P12956
Pathways:	DNA Damage Repair

Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:10~50. FC: 1:10~50
Restrictions:	For Research Use only

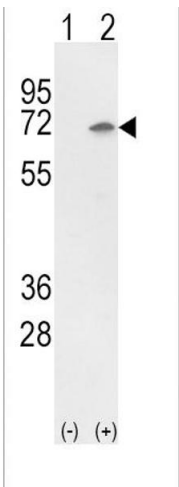
Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
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:	4 °C, -20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months



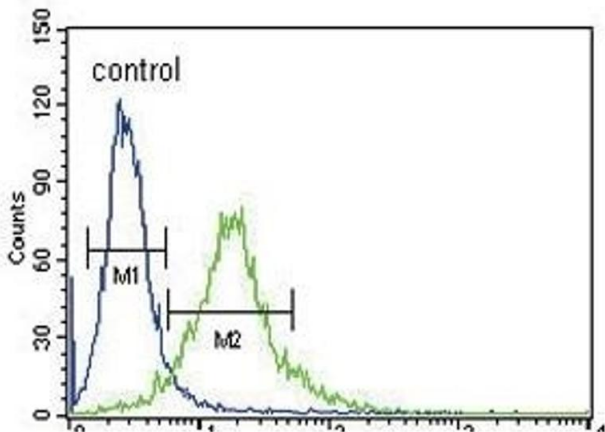
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded mouse spleen tissue reacted with Ku70 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.



Western Blotting

Image 2. Western blot analysis of Ku70 (arrow) using rabbit polyclonal Ku70 Antibody (Center) (ABIN652244 and ABIN2841008). 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected with the Ku70 gene (Lane 2).



Flow Cytometry

Image 3. Ku70 Antibody (Center) (ABIN652244 and ABIN2841008) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.