



# Rabbit Anti-Human XRCC6 monoclonal antibody, clone KN72-42 (CABT-L949)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Target</b>	Ku 70
<b>Immunogen</b>	Recombinant protein
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Clone</b>	KN72-42
<b>Purification</b>	Protein A purified.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, IP, ICC/IF, IHC, FC
<b>Cellular Localization</b>	Nucleus. Chromosome.
<b>Positive Control</b>	Jurkat, A549, MCF-7, Hela, human tonsil tissue, human breast cancer tissue.
<b>Format</b>	Liquid
<b>Size</b>	100 µl
<b>Buffer</b>	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
<b>Preservative</b>	0.05% Sodium Azide
<b>Storage</b>	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw

cycles.

## BACKGROUND

### Introduction

The Ku protein is localized in the nucleus and is composed of subunits referred to as Ku-70 (p70) and Ku-86 (p86) which is also known by the synonym Ku-80 or (p80). Ku was first described as an autoantigen to which antibodies were produced in a patient with scleroderma polymyositis overlap syndrome, and was later found in the sera of patients with other rheumatic diseases. Both subunits of the Ku protein have been cloned, and a number of functions have been proposed for Ku, including cell signaling, DNA replication and transcriptional activation. Ku is involved in Pol II-directed transcription by virtue of its DNA binding activity, serving as the regulatory component of the DNA-associated protein kinase that phosphorylates Pol II and transcription factor Sp. Ku proteins also activate transcription from the U1 small nuclear RNA and the human transferrin receptor gene promoters. A Ku-related protein designated the enhancer 1 binding factor (E1BF), composed of two subunits, has been identified as a positive regulator of RNA polymerase I transcription initiation.

### Keywords

5"-deoxyribose-5-phosphate lyase Ku70;5"-dRP lyase Ku70;70 kDa subunit of Ku antigen;ATP-dependent DNA helicase 2 subunit 1;ATP dependent DNA helicase II 70 kDa subunit;ATP-dependent DNA helicase 2 subunit 1;ATP-dependent DNA helicase II 70 kDa subunit;CTC box binding factor 75 kDa subunit;CTC box-binding factor 75 kDa subunit;CTC75;CTCBF;DNA repair protein XRCC6;G22P1;Ku 70;Ku autoantigen p70 subunit;Ku autoantigen, 70kDa;Ku p70;Ku70;Ku70 DNA binding component of DNA-dependent proteinkinase complex (thyroid autoantigen 70 kDa;Kup70;Lupus Ku autoantigen protein p70;ML8;Thyroid autoantigen 70kD (Ku antigen);Thyroid autoantigen;Thyroid lupus autoantigen;Thyroid lupus autoantigen p70;Thyroid-lupus autoantigen;TLAA;X ray repair complementing defective repair in Chinese hamster cells 6;X-ray repair complementing defective repair in Chinese hamster cells 6;X-ray repair cross-complementing protein 6;XRCC 6;Xrcc6;XRCC6\_HUMAN antibody

## GENE INFORMATION

### Entrez Gene ID

[2547](#)

### UniProt ID

[A0A024R1N4](#)