

# Ku70 Rabbit pAb

Catalog No.: A7330

8 Publications

## Basic Information

**Observed MW**

70kDa

**Calculated MW**

70kDa

**Category**

Primary antibody

**Applications**

ELISA, WB, IHC-P, IF/ICC, IP

**Cross-Reactivity**

Human, Mouse, Rat

## Background

The p70/p80 autoantigen is a nuclear complex consisting of two subunits with molecular masses of approximately 70 and 80 kDa. The complex functions as a single-stranded DNA-dependent ATP-dependent helicase. The complex may be involved in the repair of nonhomologous DNA ends such as that required for double-strand break repair, transposition, and V(D)J recombination. High levels of autoantibodies to p70 and p80 have been found in some patients with systemic lupus erythematosus.

## Recommended Dilutions

**WB** 1:500 - 1:2000**IHC-P** 1:50 - 1:100**IF/ICC** 1:50 - 1:100**IP** 0.5µg-4µg antibody for  
200µg-400µg extracts of  
whole cells

## Immunogen Information

**Gene ID**

2547

**Swiss Prot**

P12956

**Immunogen**

A synthetic peptide corresponding to a sequence within amino acids 501-600 of human Ku70 (NP\_001460.1).

**Synonyms**

ML8; KU70; TLAA; CTC75; CTCBF; G22P1; Ku70

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

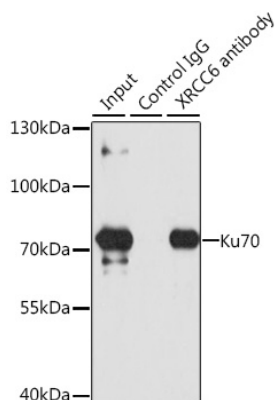
Affinity purification

**Storage**

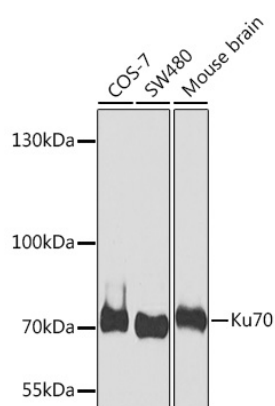
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

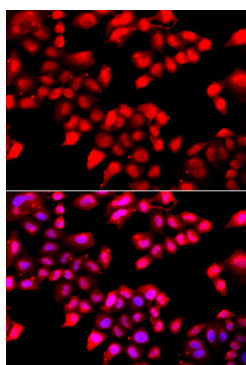
## Validation Data



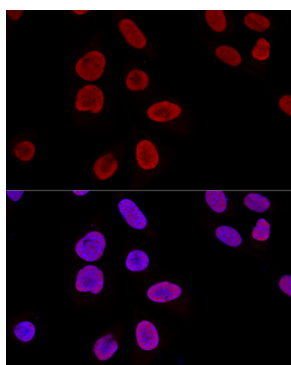
Immunoprecipitation analysis of 100 µg extracts of SW480 cells using 3 µg Ku70 antibody (A7330). Western blot was performed from the immunoprecipitate using Ku70 antibody (A7330) at a dilution of 1:1000.



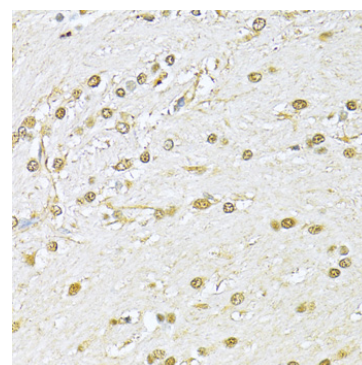
Western blot analysis of various lysates using Ku70 Rabbit pAb (A7330) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 60s.



Immunofluorescence analysis of A549 cells using Ku70 Rabbit pAb (A7330). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



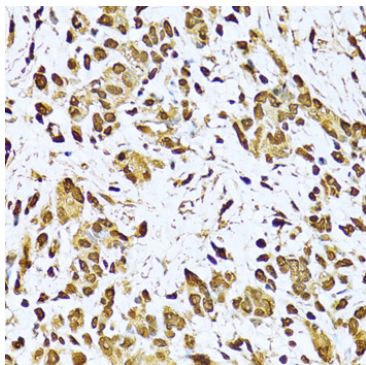
Confocal immunofluorescence analysis of U2OS cells using Ku70 Rabbit pAb (A7330) at dilution of 1:100. Blue: DAPI for nuclear staining.



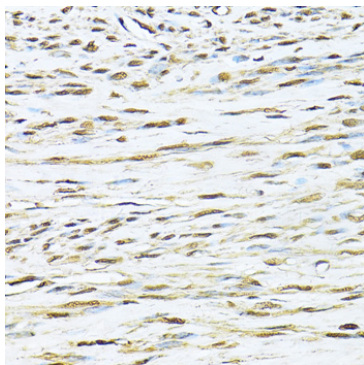
Immunohistochemistry analysis of Ku70 in paraffin-embedded rat brain using Ku70 Rabbit pAb (A7330) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.

## Validation Data

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Immunohistochemistry analysis of Ku70 in paraffin-embedded human gastric cancer using Ku70 Rabbit pAb (A7330) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunohistochemistry analysis of Ku70 in paraffin-embedded human uterus using Ku70 Rabbit pAb (A7330) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.