

ARG63937 anti-Ku80 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes Ku80
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	Ku80
Species	Human
Immunogen	C-SLAKKDEKDTLED
Conjugation	Un-conjugated
Alternate Names	double-strand-break rejoining; Thyroid-lupus autoantigen; Nuclear factor IV; KU80; DNA repair protein XRCC5; KARP1; Lupus Ku autoantigen protein p86; EC 3.6.4.-; CTCBF; CTC85; ATP-dependent DNA helicase 2 subunit 2; X-ray repair cross-complementing protein 5; ATP-dependent DNA helicase II 80 kDa subunit; CTC box-binding factor 85 kDa subunit; KARP-1; X-ray repair complementing defective repair in Chinese hamster cells 5; 86 kDa subunit of Ku antigen; KUB2; NFIV; TLAA; Ku80; Ku86

Application Instructions

Application table	Application	Dilution
	IHC-P	5 µg/ml
	WB	0.1 - 0.3 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links

[GeneID: 7520 Human](#)

[Swiss-port # P13010 Human](#)

Background

The protein encoded by this gene is the 80-kilodalton subunit of the Ku heterodimer protein which is also known as ATP-dependant DNA helicase II or DNA repair protein XRCC5. Ku is the DNA-binding component of the DNA-dependent protein kinase, and it functions together with the DNA ligase IV-XRCC4 complex in the repair of DNA double-strand break by non-homologous end joining and the completion of V(D)J recombination events. This gene functionally complements Chinese hamster xrs-6, a mutant defective in DNA double-strand break repair and in ability to undergo V(D)J recombination. A rare microsatellite polymorphism in this gene is associated with cancer in patients of varying radiosensitivity. [provided by RefSeq, Jul 2008]

Research Area

Gene Regulation antibody

Calculated Mw

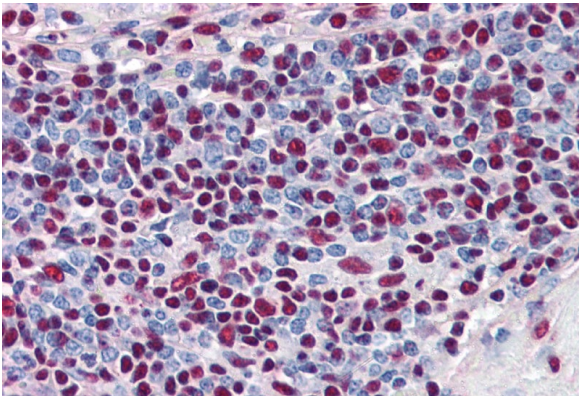
83 kDa

PTM

Phosphorylated on serine residues. Phosphorylation by PRKDC may enhance helicase activity. Sumoylated.

Ubiquitinated by RNF8 via 'Lys-48'-linked ubiquitination following DNA damage, leading to its degradation and removal from DNA damage sites (PubMed:22266820). Ubiquitinated by RNF138, leading to remove the Ku complex from DNA breaks (PubMed:26502055).

Images



ARG63937 anti-Ku80 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human spleen tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG63937 anti-Ku80 antibody at 5 µg/ml dilution followed by AP-staining.



ARG63937 anti-Ku80 antibody WB image

Western blot: 35 µg of HeLa cell lysate stained with ARG63937 anti-Ku80 antibody at 0.1 µg/ml dilution.