

anti-Human Ku70 Polyclonal Antibody | anti-Ku70 antibody

Anti-Ku70 Antibody

CATALOG # AAA46577	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot
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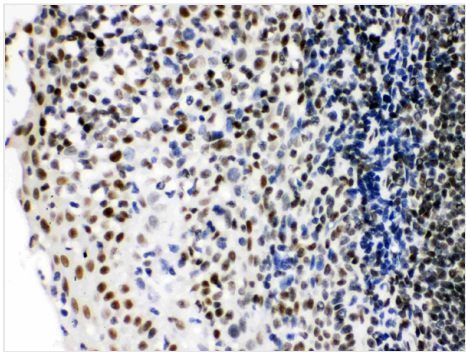
PRODUCT SYNONYMS

Ku70; Polyclonal Antibody; Anti-Ku70 Antibody; X-ray repair cross-complementing protein 6; 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 70kDa; Ku autoantigen p70 subunit; Ku autoantigen; 70kDa; Ku p70; Ku70 DNA binding component of DNA-dependent protein kinase 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; XRCC 6; XRCC6; XRCC6_HUMAN; anti-Ku70 antibody

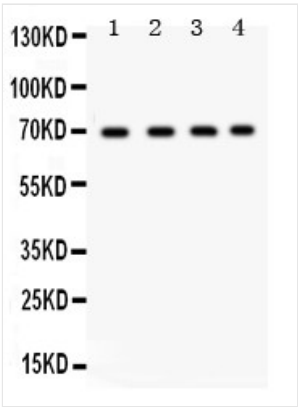
PRODUCT SPECIFICATIONS

Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	609
Applicable Applications for anti-Ku70 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at C-terminus of human Ku70 (464-496aa AIVEKLRFTYRSDSFENPVLQQHFRNLEALALD), different from the related mouse sequence by one amino acid.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)
Anti- Ku70 Picoband antibody, AAA46577, IHC(P)IHC(P): Human Tonsil Tissue



WB (Western Blot)
Anti- Ku70 Picoband antibody, AAA46577, Western blottingAll lanes: Anti (AAA46577) at 0.5ug/mlLane 1: A549 Whole Cell Lysate at 40ugLane 2: HELA Whole Cell Lysate at 40ugLane 3: HEPG2 Whole Cell Lysate at 40ugLane 4: MCF-7 Whole Cell Lysate at 40ugPredicted bind size: 70KDObserved bind size: 70KD

ADDITIONAL INFORMATION

Related Product Information for anti-Ku70 antibody	Description: Rabbit IgG polyclonal antibody for X-ray repair cross-complementing protein 6(XRCC6) detection. Tested with WB, IHC-P in Human. Background: XRCC6 (X-Ray Repair, Complementing Defective, In Chinese Hamster, 6), also called Ku70, G22P1 or TLAA, is a protein that in humans, is encoded by the XRCC6 gene. In addition, the XRCC6 gene encodes subunit p70 of the p70/p80 autoantigen which consists of 2 proteins of molecular mass of approximately 70,000 and 80,000 daltons that dimerize to form a 10 S DNA-binding complex. The XRCC6 gene is mapped to 22q13.2. XRCC6 and Mre11 are differentially expressed during meiosis. XRCC6 interacts with Baxa, a mediator of mitochondrial-dependent apoptosis. Disruption of both FANCC and XRCC6 suppressed sensitivity to crosslinking agents, diminished chromosome breaks, and reversed defective homologous recombination. Ku70 binds directly to free DNA ends, committing them to NHEJ repair. In early meiotic prophase, however, when meiotic recombination is most probably initiated, Mre11 was abundant, whereas XRCC6 was not detectable.
References	1. Baumann, P., West, S. C. DNA end-joining catalyzed by human cell-free extracts. Proc. Nat. Acad. Sci. 95: 14066- 14070, 1998. 2. Chan, J. Y. C., Lerman, M. I., Prabhakar, B. S., Isozaki, O., Santisteban, P., Kuppers, R. C., Oates, E. L., Notkins, A. L., Kohn, L. D. Cloning and characterization of a cDNA that encodes a 70-kDa novel human thyroid autoantigen. J. Biol. Chem. 264: 3651-3654, 1989.

NCBI AND UNIPROT INFORMATION

NCBI GI #	573014815
NCBI GeneID	2547
NCBI Accession #	NP_001275905.1
NCBI GenBank Nucleotide #	NM_001288976.1
UniProt Accession #	P12956; Q6FG89; Q9UCQ2; Q9UCQ3; B1AHC8
Molecular Weight	65,149 Da
NCBI Official Full Name	X-ray repair cross-complementing protein 6 isoform 1
NCBI Official Synonym Full Names	X-ray repair complementing defective repair in Chinese hamster cells 6
NCBI Official Symbol	XRCC6
NCBI Official Synonym Symbols	ML8; KU70; TLAA; CTC75; CTCBF; G22P1
NCBI Protein Information	X-ray repair cross-complementing protein 6

UniProt Protein Name	X-ray repair cross-complementing protein 6
UniProt Gene Name	XRCC6
UniProt Synonym Gene Names	G22P1; 5'-dRP lyase Ku70; CTC75; CTCBF; Ku70; TLAA
UniProt Entry Name	XRCC6_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ku70-antibody-immunohistochemistry-western-blot-elisa/46577>