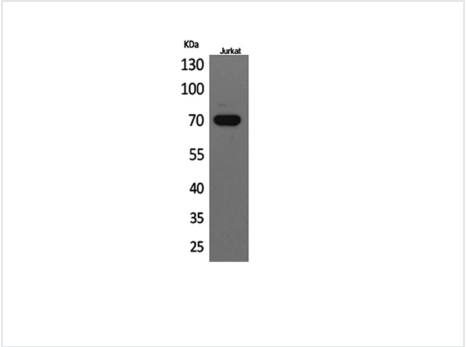
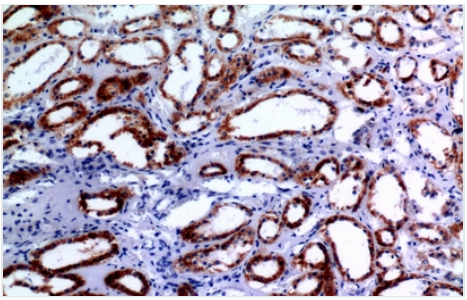
Ku-70 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Ku-70, Polyclonal Antibody
Full Product Name	Ku-70 Polyclonal Antibody
Product Gene Name	anti-Ku-70 antibody
Product Synonym Names	XRCC6; G22P1; 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
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	Antigen Affinity Purified
Concentration	1 mg/ml (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles.
Molecular Weight	Calculated MW: 70 Observed MW: 70
Immunogen	Synthesized peptide derived from human Ku-70 around the non-acetylation site of K542.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Product Categories/Family for anti-Ku-70 antibody	Cancer
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-Ku-70 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-Ku-70 antibody	WB: 1:500-1:2000, ELISA: 1:5000-1:20000
Related Product Information for anti-Ku-70 antibody	MBS2537415 is an antibody targeting Ku-70. Also known as Ku-70 Polyclonal Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-Ku-70 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-Ku-70 antibody
Western Blot analysis of Jurkat cells with Ku-70 Polyclonal Antibody.



Immunohistochemistry (IHC) of anti-Ku-70 antibody
Immunohistochemistry of paraffin-embedded Human kidney tissue using Ku-70 Polyclonal Antibody at dilution of 1:100.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Ku-70. It may not necessarily be applicable to this product.

NCBI GI #	1469367
NCBI GeneID	14375
NCBI Accession #	AAC53575.1
UniProt Secondary Accession #	O88212; Q3UJL8; Q62027; Q62382; Q62453; Q6GTV8; Q8QZX7
UniProt Related Accession #	P23475
NCBI Official Full Name	Ku 70, partial
NCBI Official Synonym Full Names	X-ray repair complementing defective repair in Chinese hamster cells 6
NCBI Official Symbol	Xrcc6
NCBI Official Synonym Symbols	Ku70; 70kDa; G22p1
UniProt Protein Name	X-ray repair cross-complementing protein 6
UniProt Synonym Protein Names	5'-deoxyribose-5-phosphate lyase Ku70; 5'-dRP/AP lyase Ku70; ATP-dependent DNA helicase 2 subunit 1; ATP-dependent DNA helicase II 70 kDa subunit; CTC box-binding factor 75 kDa subunit; CTC75; CTCBF; DNA repair protein XRCC6; Ku autoantigen protein p70 homolog; Ku70
UniProt Gene Name	Xrcc6
UniProt Synonym Gene Names	G22p1; Ku70; 5'-dRP/AP lyase Ku70; CTC75; CTCBF; Ku70
UniProt Entry Name	XRCC6_MOUSE
NCBI Protein Information	X-ray repair cross-complementing protein 6

UniProt Comments for Ku-70	Ku70: a mini-chromosome maintenance protein, essential for the initiation of eukaryotic genome replication. Allows DNA to undergo a single round of replication per cell cycle. Required for the entry in S phase and for cell division. Protein type: Nuclear receptor co-regulator; Helicase; EC 3.6.4.-; DNA repair, damage; RNA-binding; DNA-binding; EC 4.2.99.- Cellular Component: chromosome; cytoplasm; membrane; nuclear chromosome, telomeric region; nucleolus; nucleoplasm; nucleus; protein complex; transcription factor complex Molecular Function: 5'-deoxyribose-5-phosphate lyase activity; ATP binding; ATP-dependent DNA helicase activity; catalytic activity; damaged DNA binding; DNA binding; double-stranded DNA binding; double-stranded telomeric DNA binding; helicase activity; hydrolase activity; lyase activity; nucleotide binding; protein binding; protein C-terminus binding; telomeric DNA binding Biological Process: DNA duplex unwinding; DNA recombination; DNA repair; double-strand break repair; double-strand break repair via nonhomologous end joining; metabolic process; negative regulation of transcription, DNA-dependent; positive regulation of neurogenesis; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription, DNA-dependent; protein heterotetramerization; regulation of smooth muscle cell proliferation; regulation of transcription, DNA-dependent; response to DNA damage stimulus; response to ionizing radiation; telomere maintenance; transcription, DNA-dependent; V(D)J recombination
Research Articles on Ku-70	**1.** Bax deficiency appeared to delay the development of emphysema. This study suggests that enhanced Bax activity exacerbates the negative impact of Ku70 deletion
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