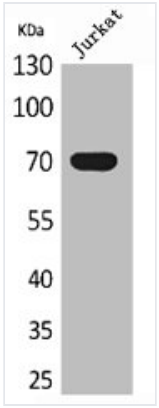
XRCC6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	XRCC6, Polyclonal Antibody
Full Product Name	XRCC6 Antibody
Product Gene Name	anti-XRCC6 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
Form/Format	Liquid; In Phosphate Buffered Saline, 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	69,843 Da
Chromosome Location	Chromosome: 22; NC_000022.10 (42017295..42060052). Location: 22q13.2
OMIM	152690
3D Structure	ModBase 3D Structure for P12956
Immunogen	Synthesized peptide derived from human Ku-70 around the non-acetylation site of K542.
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-XRCC6 antibody	Epigenetics and Nuclear Signaling
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-XRCC6 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-XRCC6 antibody	WB: 1:500-1:2000 ELISA: 1:20000
Related Product Information for anti-XRCC6 antibody	MBS7118824 is an antibody targeting XRCC6. Also known as XRCC6 Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-XRCC6 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-XRCC6 antibody
Western Blot analysis of Jurkat cells using Ku-70 Polyclonal Antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for XRCC6. It may not necessarily be applicable to this product.

NCBI GI #	4503841
NCBI GeneID	2547
NCBI Accession #	NP_001460.1
UniProt Primary Accession #	P12956
UniProt Secondary Accession #	Q6FG89; Q9UCQ2; Q9UCQ3
UniProt Related Accession #	P12956
GenBank Nucleotide #	NM_001469.3
NCBI Official Full Name	X-ray repair cross-complementing protein 6
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
UniProt Protein Name	X-ray repair cross-complementing protein 6
UniProt Synonym Protein Names	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; CTC box-binding factor 75 kDa subunit; CTC75; CTCBF; DNA repair protein XRCC6; Lupus Ku autoantigen protein p70; Ku70; Thyroid-lupus autoantigen; TLAA; X-ray repair complementing defective repair in Chinese hamster cells 6
Protein Family	X-ray repair cross-complementing protein
UniProt Gene Name	XRCC6
UniProt Synonym Gene Names	G22P1; 5'-dRP lyase Ku70; CTC75; CTCBF; Ku70; TLAA
UniProt Entry Name	XRCC6_HUMAN
NCBI Protein Information	X-ray repair cross-complementing protein 6; 5'-dRP lyase Ku70; Ku autoantigen, 70kDa; DNA repair protein XRCC6; Ku autoantigen p70 subunit; 70 kDa subunit of Ku antigen; thyroid-lupus autoantigen p70; lupus Ku autoantigen protein p70; 5'-deoxyribose-5-pho
NCBI Summary for XRCC6	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. [provided by RefSeq, Jul 2008]

UniProt Comments for XRCC6	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: Helicase; EC 3.6.4.-; DNA-binding; DNA repair, damage; Nuclear receptor co-regulator; EC 4.2.99.-; RNA-binding Chromosomal Location of Human Ortholog: 22q13.2 Cellular Component: nucleoplasm; transcription factor complex; nuclear telomere cap complex; membrane; nucleolus; cytosol; nucleus Molecular Function: ATP-dependent DNA helicase activity; protein C-terminus binding; protein binding; DNA binding; double-stranded DNA binding; damaged DNA binding; double-stranded telomeric DNA binding; 5'-deoxyribose-5-phosphate lyase activity; ATP binding Biological Process: positive regulation of neurogenesis; V(D)J recombination; transcription, DNA-dependent; viral reproduction; positive regulation of transcription, DNA-dependent; DNA repair; double-strand break repair via nonhomologous end joining; DNA duplex unwinding; DNA ligation; double-strand break repair; positive regulation of interferon type I production; innate immune response; positive regulation of transcription from RNA polymerase II promoter; brain development; negative regulation of transcription, DNA-dependent; telomere maintenance
Research Articles on XRCC6	**1.** XRCC6 C1310G polymorphism is associated with risk of cancer development.
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