



Human XRCC6 peptide (DAG-P0715)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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]
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the ku70 family.Contains 1 Ku domain.Contains 1 SAP domain.
Format	Liquid
Size	100 µg
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	XRCC6 X-ray repair complementing defective repair in Chinese hamster cells 6 [Homo sapiens (human)]
Official Symbol	XRCC6
Synonyms	XRCC6; X-ray repair complementing defective repair in Chinese hamster cells 6; ML8; KU70; TLAA; CTC75; CTCBF; G22P1; 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-phosphate lyase Ku70; CTC box binding factor 75 kDa subunit; CTC box-binding factor 75 kDa subunit; thyroid autoantigen 70kD (Ku antigen); ATP-dependent DNA helicase 2 subunit 1; thyroid autoantigen 70kDa (Ku antigen); ATP-dependent DNA helicase II 70 kDa subunit; ATP-dependent DNA helicase II, 70 kDa subunit;

Entrez Gene ID	2547
mRNA Refseq	NM_001288976.1
Protein Refseq	NP_001275905.1
UniProt ID	P12956
Chromosome Location	22q13.2
Pathway	2-LTR circle formation, organism-specific biosystem; BARD1 signaling events, organism-specific biosystem; Coregulation of Androgen receptor activity, organism-specific biosystem; Cytosolic sensors of pathogen-associated DNA, organism-specific biosystem; DNA Repair, organism-specific biosystem; DNA-PK complex, organism-specific biosystem; DNA-PK complex, conserved biosystem; Disease, organism-specific biosystem; Double-Strand Break Repair, organism-specific biosystem; Early Phase of HIV Life Cycl
Function	5-deoxyribose-5-phosphate lyase activity; ATP binding; ATP-dependent DNA helicase activity; DNA binding; damaged DNA binding; double-stranded DNA binding; contributes_to double-stranded telomeric DNA binding; poly(A) RNA binding; protein C-terminus bindin