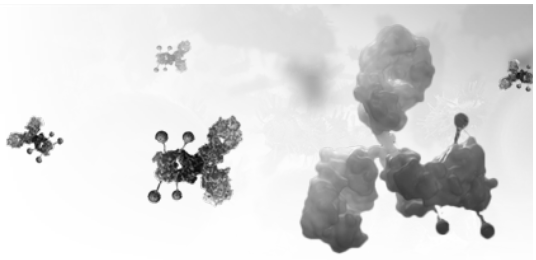

Human PRKDC peptide (DAG-P0447)

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

PRODUCT INFORMATION

Antigen Description	This gene encodes the catalytic subunit of the DNA-dependent protein kinase (DNA-PK). It functions with the Ku70/Ku80 heterodimer protein in DNA double strand break repair and recombination. The protein encoded is a member of the PI3/PI4-kinase family.[provided by RefSeq, Jul 2010]
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the PI3/PI4-kinase family.Contains 1 FAT domain.Contains 1 FATC domain.Contains 2 HEAT repeats.Contains 1 PI3K/PI4K domain.Contains 3 TPR repeats.
Format	Liquid
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	PRKDC protein kinase, DNA-activated, catalytic polypeptide [Homo sapiens (human)]
Official Symbol	PRKDC
Synonyms	PRKDC; protein kinase, DNA-activated, catalytic polypeptide; HYRC; p350; DNAPK; DNPK1; HYRC1; XRCC7; DNA-PKcs; DNA-dependent protein kinase catalytic subunit; p460; DNA-PK catalytic subunit; hyper-radiosensitivity of murine scid mutation, complementing 1;
Entrez Gene ID	5591

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mRNA Refseq	NM_001081640.1
Protein Refseq	NP_001075109.1
UniProt ID	P78527
Chromosome Location	8q11
Pathway	BARD1 signaling events, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; Class I PI3K signaling events mediated by Akt, 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, conser
Function	ATP binding; DNA binding; DNA-dependent protein kinase activity; enzyme binding; poly(A) RNA binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; transcription factor binding;

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