Recombinant Human PRKDC

Cat. No. PRKDC-28357TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 4019-4128 of Human DNA PKcs with a N terminal proprietary tag; Predicted MWt 37.73 kDa including tag
Species	Human
Source	Wheat Germ
ProteinLength	110 amino acids
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.
Molecular Weight	37.730kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids	KMLKKGGSWIQEINVAEKNWYPRQKICYAKRKLAGANPAV ITCDELLLGHEKAPAFR DYVAVARGSKDHNIRAQEPESGL SEETQVKCLMDQATDPNILGRTWEGWEPWM
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.

GENE INFORMATION

Gene Name	PRKDC protein kinase, DNA-activated, catalytic polypeptide [Homo sapiens]
Official Symbol	PRKDC
Synonyms	PRKDC; protein kinase, DNA-activated, catalytic polypeptide; HYRC, HYRC1; DNA-dependent protein kinase catalytic subunit; DNA PKcs; DNAPK; DNPK1; p350; XRCC7;
Gene ID	5591
mRNA Refseq	NM_001081640
Protein Refseq	NP_001075109
MIM	600899
Uniprot ID	P78527
Chromosome Location	8q11
Pathway	BARD1 signaling events, organism-specific biosystem; Cell cycle, organism-specific

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	biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; Class I PI3K signaling events mediated by Akt, organism-specific biosystem;
Function	ATP binding; DNA binding; DNA-dependent protein kinase activity; enzyme binding; nucleotide binding;

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