

# Recombinant Human PRKDC Protein

**Cat. No.** PRKDC-860H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human PRKDC Protein was expressed in HeLa cells.                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | HeLa                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | DNA-Dependent Protein Kinase (DNA-PK) phosphorylates several DNA-binding substrates in vitro, including the tumor suppressor protein p53, the SV40 large T antigen and several transcription factors. DNA-PK is thought to play a role in controlling gene regulation and cell growth. |
| <b>Form</b>             | 25mM HEPES (pH 7.5), 50mM KCl, 0.2mM EDTA, 10mM MgCl <sub>2</sub> , 1mM DTT, 10% glycerol.                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | DNA-Dependent Protein Kinase (DNA-PK) consists of an approximate 460kDa catalytic subunit and a heterodimeric DNA-binding subunit (Ku) containing a 85kDa and a 70kDa peptide (1). It is purified from HeLa cells.                                                                     |
| <b>Unit Definition</b>  | One unit is defined as the amount of enzyme required to transfer 1pmol of phosphate to DNA-Dependent Protein Kinase Peptide Substrate in 1 minute at 30 centigrade.                                                                                                                    |
| <b>Storage</b>          | DNA-PK is stable at 4 centigrade for 1 hour. Avoid multiple freeze-thaw cycles or exposure to frequent temperature changes. These fluctuations can greatly alter product stability.                                                                                                    |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

## 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; DNP1; p350; XRCC7; p460; DNA-PK catalytic subunit; hyper-radiosensitivity of murine scid mutation, complementing 1; HYRC; HYRC1; DNA-PKcs; |
| Gene ID         | 5591                                                                                                                                                                                                                                                                                  |
| mRNA Refseq     | NM_001081640                                                                                                                                                                                                                                                                          |
| Protein Refseq  | NP_001075109                                                                                                                                                                                                                                                                          |
| MIM             | 600899                                                                                                                                                                                                                                                                                |
| UniProt ID      | P78527                                                                                                                                                                                                                                                                                |

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