



# SZABO SCANDIC

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## Produktinformation



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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Datasheet

### PRKDC (Human) Recombinant Protein (Q01)

**Catalog Number:** H00005591-Q01

**Regulation Status:** For research use only (RUO)

**Product Description:** Human PRKDC partial ORF ( NP\_008835, 4019 a.a. - 4128 a.a.) recombinant protein with GST-tag at N-terminal.

**Sequence:**

KMLKKGGSWIQEINVAEKNWYPRQKICYAKRKL  
AGAN PAVITCDELLLGHEKAPAFRDYVAVARGSKD  
HNIQAQ PESGLSEETQVKCLMDQATDPN  
ILGRTWEGREPWM

**Host:** Wheat Germ (in vitro)

**Theoretical MW (kDa):** 37.84

**Applications:** AP, Array, ELISA, WB-Re  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at  
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Preparation Method:** [in vitro wheat germ expression system](#)

**Purification:** Glutathione Sepharose 4 Fast Flow

**Storage Buffer:** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction:** Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 5591

**Gene Symbol:** PRKDC

**Gene Alias:** DNA-PKcs, DNAPK, DNP1, HYRC, HYRC1, XRCC7, p350

**Gene Summary:** The PRKDC gene encodes the catalytic subunit of a nuclear DNA-dependent serine/threonine protein kinase (DNA-PK). The second component is the autoimmune antigen Ku (MIM

152690), which is encoded by the G22P1 gene on chromosome 22q. On its own, the catalytic subunit of DNA-PK is inactive and relies on the G22P1 component to direct it to the DNA and trigger its kinase activity; PRKDC must be bound to DNA to express its catalytic properties.[supplied by OMIM]

**References:**

1. Mutual regulation between DNA-PKcs and snail1 leads to increased genomic instability and aggressive tumor characteristics. Pyun BJ, Seo HR, Lee HJ, Jin YB, Kim EJ, Kim NH, Kim HS, Nam HW, Yook JI, Lee YS Cell Death Dis. 2013 Feb 28;4:e517. doi: 10.1038/cddis.2013.43.