

## Anti-Phospho-DNA-PKcs/PRKDC (T2647) Antibody

Catalog Number: P00645-2

### About PRKDC

PRKDC (Protein Kinase DNA-Activated Catalytic Subunit), also called DNAPK, HYRC1, p350 or DNP1, is an enzyme that in humans is encoded by the PRKDC gene. DNA-PKcs belongs to the phosphatidylinositol 3-kinase-related kinase protein family. Satoh et al. (1997) mapped the MCM4 gene to 8q11.2 by FISH. Based on the close proximity of the PRKDC and MCM4 genes, it was assumed that the PRKDC gene also maps to this location. Anderson and Lees-Miller (1992) noted that DNA-PK had been shown in vitro to phosphorylate several transcription factors, suggesting that it functions in cell homeostasis by modulating transcription. Daniel et al. (1999) demonstrated that the PRKDC protein participates in retroviral DNA integration, which is catalyzed by the viral protein integrase.

### Overview

Product Name	Anti-Phospho-DNA-PKcs/PRKDC (T2647) Antibody
Reactive Species	Human
Description	Boster Bio Anti-Phospho-DNA-PKcs/PRKDC (T2647) Antibody catalog # P00645-2. Tested in WB, IHC, ICC, IF applications. This antibody reacts with Human.
Application	IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg stabilizing protein and 50% glycerol This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	12 months from date of receipt at -20°C as supplied. 6 months at 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P78527

### Technical Details

Immunogen	A synthesized peptide derived from human DNA-PK around the phosphorylation site of Thr2647.
Form	Liquid
Concentration	500 ug/ml
Purification	Protein A affinity purified.
Suggested Dilutions	Western blot, 1:500-2000

Immunohistochemistry, 1:50-200  
Immunocytochemistry/Immunofluorescence, 1:50-200

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