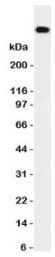
DNA-PKcs Antibody (R31076)

Catalog No.	Formulation	Size
R31076	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P78527
Applications	Western Blot : 0.5-1ug/ml
Limitations	This DNA-PKcs antibody is available for research use only.



Western blot testing of DNA PKcs antibody and HeLa cell lysate. Predicted/observed size ~460KD

Description

Protein Kinase DNA-Activated catalytic subunit, also called DNAPK, HYRC1, p350 or DNPK1, 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-PKcs 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 DNA-PKcs protein participates in retroviral DNA integration, which is catalyzed by the viral protein integrase.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the DNA-PKcs antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the N-terminus of human PRKDC (AKNAEMHKNKLQYFMEQFY) was used as the immunogen for this DNA-PKcs antibody.

Storage

After reconstitution, the DNA-PKcs antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.