

Basic Information

Product Name	Anti-DNA-PKcs/PRKDC Antibody (Clone#EIA-16)		
Gene Name	PRKDC		
Source	Rabbit		
Clonality	Monoclonal		
Isotype	IgG		
Species Reactivity	human, mouse, rat		
Tested Application	WB, IHC, ICC/IF		
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.		
Immunogen	A synthesized peptide derived from human DNA-PKcs		
Concentration	500 ug/ml		
Purification	Affinity-chromatography		
Observed MW	469 kDa		
Dilution Ratios	Western blot (WB):	1:500-2000	
	Immunohistochemistry (IHC):	1:50-200	
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-200	

Storage

12 months from date of receipt, -20°C as supplied.

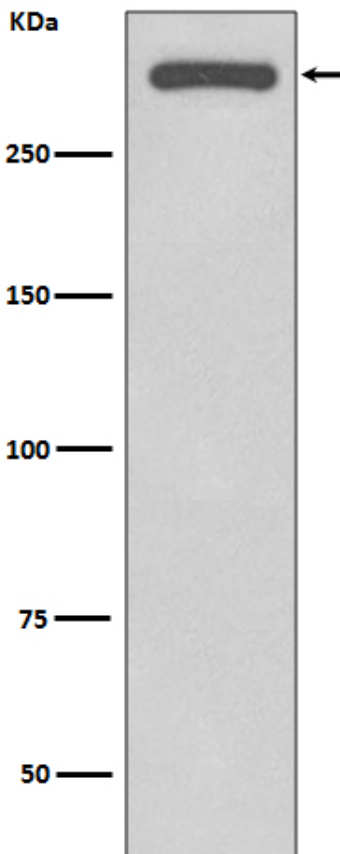
Background Information

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.

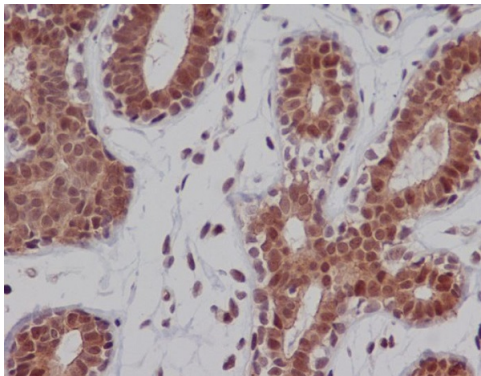
Reference

Anti-DNA-PKcs/PRKDC Antibody (Clone#EIA-16)被引用在2文献中。

Selected Validation Data



Western blot analysis of DNA-PKcs expression in HeLa cell lysate.



Immunohistochemical analysis of paraffin-embedded human breast, using DNA-PKcs Antibody.