

À des fins de recherche uniquement

# Anticorps Polyclonal de lapin anti-DNA-PKcs



Numéro de catalogue: 19983-1-AP

16 Publications

## Informations de base

Numéro de catalogue:  
19983-1-AP

Taille:  
150ul, Concentration: 500 µg/ml by Nanodrop and 287 µg/ml by Bradford method using BSA as the standard;

Hôte:  
Lapin

Isotype:  
IgG

Numéro d'acquisition GenBank:  
NLM\_006904

Identification du gène (NCBI):  
5591  
Nom complet:  
protein kinase, DNA-activated, catalytic polypeptide

MW calculé

469 kDa

MW observés:

350-460 kDa

Méthode de purification:  
Purification par affinité contre l'antigène

Dilutions recommandées:  
WB 1:500-1:3000

## Applications

Applications testées:  
WB, ELISA

Demandes citées:  
CoIP, IF, IHC, WB

Spécificité de l'espèce:  
Humain

Espèces citées:  
Humain, rat

Contrôles positifs:

WB : cellules HeLa, cellules MCF-7

## Informations générales

PRKDC, also named as HYRC, HYRC1, DNPK1 and p460, belongs to the PI3/PI4-kinase family. PRKDC is a serine/threonine-protein kinase that acts as a molecular sensor for DNA damage. Involved in DNA nonhomologous end joining (NHEJ), PRKDC is required for double-strand break (DSB) repair and V(D)J recombination. PRKDC must be bound to DNA to express its catalytic properties. It promotes processing of hairpin DNA structures in V(D)J recombination by activation of the hairpin endonuclease artemis (DCLRE1C). It is required to protect and align broken ends of DNA. PRKDC may also act as a scaffold protein to aid the localization of DNA repair proteins to the site of damage. It is found at the ends of chromosomes, suggesting a further role in the maintenance of telomeric stability and the prevention of chromosomal end fusion. It also involved in modulation of transcription. It recognizes the substrate consensus sequence [ST]Q. PRKDC phosphorylates 'Ser-139' of histone variant H2AX/H2AFX, thereby regulating DNA damage response mechanism. It phosphorylates DCLRE1C, c-Abl/ABL1, histone H1, HSPCA, c-jun/JUN, p53/TP53, PARP1, POU2F1, DHX9, SRF, XRCC1, XRCC1, XRCC4, XRCC5, XRCC6, WRN, c-myc/MYC and RFA2. The antibody recognizes the C-term of PRKDC.

## Publications notables

Autrice	Pubmed ID	Journal	Application
Hong-Yu Tao	36435475	Int J Biol Macromol	WB
Xing Ren	29168129	Hum Cell	WB
Zongpei Guo	32457294	Cell Death Dis	WB

## Stockage

Stockage:

Stocker à -20°C. Stable pendant un an après l'expédition.

Tampon de stockage:

PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3

L'aliquotage n'est pas nécessaire pour le stockage à -20C

\*\*\* Les 20ul contiennent 0,1% de BSA.

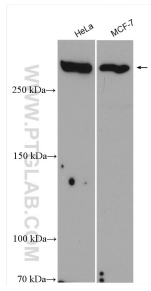
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E: proteintech@ptglab.com  
W: ptglab.com

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## Données de validation sélectionnées



Various lysates were subjected to SDS PAGE followed by western blot with 19983-1-AP (DNA-PKcs antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.