

## DNA PKcs(Ab-2609) Antibody

Catalog No: #21179

Package Size: #21179-1 50ul #21179-2 100ul #21179-4 25ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

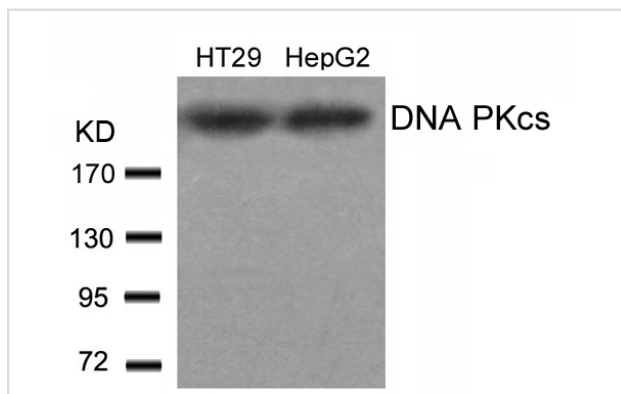
Product Name	DNA PKcs(Ab-2609) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total DNA PKcs protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.2607~2611 (V-E-T-Q-A) derived from Human DNA-PK.
Target Name	DNA PKcs
Other Names	DNPK1; PRKD; PRKDC; XRCC7; P460
Accession No.	Swiss-Prot: P78527NCBI Protein: NP_001075109.1
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

## Application Details

Predicted MW: 450kd

Western blotting: 1:500~1:1000

## Images



Western blot analysis of extracts from HT29 and HepG2 cells using DNA PKcs(Ab-2609) antibody #21179.

## Background

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

Chan DW, et al. (2002) *Genes Dev.* Sep 15; 16(18): 2333-2338

Ding Q, et al. (2003) *Mol Cell Biol.* Aug; 23(16): 5836-5848

Douglas P, et al. (2002) *Biochem J.* Nov 15; 368(Pt 1): 243-251

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.