

## Product datasheet for **AP12899PU-N**

### DNA PKcs (PRKDC) pThr2609 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Recommended Dilution:	ELISA: 1/1,000. Dot Blot: 1/500.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	This antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T2609 of human DNA-PK.
Specificity:	This antibody detects DNA pThr2609.
Formulation:	PBS with 0.09% (W/V) Sodium Azide as preservative. State: Aff - Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Protein A Chromatography followed by two-step phosphospecific peptide affinity purification.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	protein kinase, DNA-activated, catalytic polypeptide
Database Link:	<a href="#">Entrez Gene 5591 Human P78527</a>



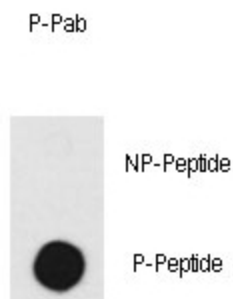
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**Background:**

Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the  $\gamma$  phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The STE group (homologs of yeast Sterile 7, 11, 20 kinases) consists of 50 kinases related to the mitogen-activated protein kinase (MAPK) cascade families (Ste7/MAP2K, Ste11/MAP3K, and Ste20/MAP4K). MAP kinase cascades, consisting of a MAPK and one or more upstream regulatory kinases (MAPKKs) have been best characterized in the yeast pheromone response pathway. Pheromones bind to Stem cell surface receptors and activate yeast MAPK pathway.

**Synonyms:**

DNPK1, p460, HYRC, HYRC1

**Note:****Molecular weight:** 469079 Da**Product images:**

Dot blot analysis of anti-DNA-PK-pThr2609 Pab (Cat#AP12899PU-N) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.

**Dot Blot**