PRKDC

Rabbit Anti-Human Protein Kinase DNA-Activated Catalytic Polypeptide Affinity Purified pAb

Catalog No.	CPP142	**Quantity:**	100 µg

Alternate Names: DNAPK, DNA-PKcs, DNPK1, HYRC, HYRC1, XRCC7

Description: Rabbit Anti-Human PRKDC Affinity Purified polyclonal antibody. DNA-dependent protein kinase (DNA-PK) is made up of 3 subunits, 2 Ku proteins and a large catalytic subunit (DNA-PKcs). DNA-PKcs falls into the phosphatidyl-inositol 3-kinase superfamily although it does have serine/threonine protein kinase activity. This subunit migrates on SDS-PAGE gels as an intact and smaller processed form. In vitro, DNA-PK phosphorylates several transcription factors and other DNA-binding proteins and is believed to play a role in DNA damage recognition, repair and transcription. There is evidence to suggest that DNA-PKcs may be a critical target for proteolysis by a caspase in apoptosis.

Concentration: 0.5 mg/ml

Gene ID: 5591

Specificity: Recognizes a > 350 kDa and a 180 kDa protein (believed to be a processed form of the catalytic subunit), corresponding to the expected molecular weight of DNA-PKcs, in samples from human, mouse, rat and hamster origins.

Host: Rabbit

Immunogen: Synthetic peptide corresponding to residues surrounding amino acid 4088 of human DNA-PK.

Isotype: IgG

Formulation: 100 µg (0.5 mg/ml) immunoaffinity purified rabbit anti-DNA-PK polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol + 0.5% BSA + 0.01% thiiomersal. **Precaution:** Thiomersal is a poisonous and hazardous substance which should be handled by trained staff only.

Purification: Affinity purified

Cross-Reactivity: Human, mouse, rat and hamster.

Applications: Western blot

Application Notes: Western blot analysis (0.5-4 µg/ml). However, the optimal conditions should be determined individually. The immunoaffinity-purified antibody detects a >350 kDa and a 180 kDa protein (believed to be a processed form of the catalytic subunit), corresponding to the expected molecular weight of DNA-PKcs, in samples from human, mouse, rat and hamster origins.

Storage & Stability: Store at -20°C or in working aliquots at -80°C for long term storage. **Avoid repeated freeze-thaw cycles.**

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