



DNA-PKCS (phospho Thr2647) Monoclonal Antibody

DNA-PK around the phosphorylation site of Thr2647. AA range:2613-2662 Specificity Phospho-DNA-PKCS (T2647) Monoclonal Antibody detects endogenous le DNA-PKCS protein only when phosphorylated at T2647. Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azid Source Monoclonal, Mouse,IgG Purification The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen. Dilution WB 1:500-2000 Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year Synonyms PRKDC; HYRC1; DNA-dependent protein kinase catalytic subunit; DNA-PK catalytic subunit; DNA-PKcs; DNPK1; p460 Observed Band Cell Pathway Tissue Specificity Brain,Cervix carcinoma,Epithelium,Fetal lung,Placen Function catalytic activity:ATP + a protein = ADP + a phosphoprotein, enzyme regulation:Inhibited by wortmannin. Activity of the enzyme seems to be atter by autophosphorylation, function:Serine/threonine-protein kinase that acts molecular sensor for DNA damage. Involved in DNA nonhomologous end (NHEJ) required for double-strand break (DSB) repair and V(DJ) recombin Must be bound to DNA to express its catalytic properties. Promotes proces hairpin DNA structures in V(DJ) recombiniton by activation of the hairpin endonuclease artemis (DCLRE1C). The assembly of the DNA-PK complex		
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DNA ends is also required for the NHEJ ligation step. Required to protect a align broken ends of DNA. May also act as a scaffold protein to aid the loca	Function	regulation:Inhibited by wortmannin. Activity of the enzyme seems to be attenuated by autophosphorylation.,function:Serine/threonine-protein kinase that acts as a molecular sensor for DNA damage. Involved in DNA nonhomologous end joining (NHEJ) required for double-strand break (DSB) repair and V(D)J recombination. Must be bound to DNA to express its catalytic properties. Promotes processing of

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	of DNA repair proteins to the site of damage. Found at the ends of chromosomes, suggesting a further role in the maintenance of
Background	This gene encodes the catalytic subunit of the DNA-dependent protein kinase (DNA-PK). It functions with the Ku70/Ku80 heterodimer protein in DNA double strand break repair and recombination. The protein encoded is a member of the PI3/PI4-kinase family.[provided by RefSeq, Jul 2010],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.
	Products Images

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