



## 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  |                    |   |
|--|--------------------|---|
| Reactivity   Human;Rat;Mouse;     Applications   WB     Gene Name   PRKDC     Protein Name   DNA-dependent protein kinase catalytic subunit     Immunogen   The antiserum was produced against synthesized peptide derived from hu<br>DNA-PK around the phosphorylation site of Thr2647. AA range:2613-2663     Specificity   Phospho-DNA-PKCS (T2647) Monoclonal Antibody detects endogenous b<br>DNA-PK around the phosphorylation site of Thr2647. AA range:2613-2663     Specificity   Phospho-DNA-PKCS (T2647) Monoclonal Antibody detects endogenous b<br>DNA-PK CS 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<br>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; HYRC; HYRC1; DNA-dependent protein kinase catalytic subunit;<br>DNA-PK catalytic subunit; DNA-PKcs; DNPK1; p460     Observed Band   Cell Pathway   Nucleus . Nucleus, nucleolus .     Function   Catalytic activity:ATP + a protein = ADP + a phosphoprotein kinase that acts molecular sensor for DNA damage. Involved in DNA nonhomologous end (NHEJ) required for double-strand break (DSB) repair and V(D)/ recombin<br>Must be bound to DNA to expres its catalytic properties. Pro  | Catalog No         | BYmab-00249   |
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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<br>by autophosphorylation.,function:Serine/threonine-protein kinase that acts as a<br>molecular sensor for DNA damage. Involved in DNA nonhomologous end joining<br>(NHEJ) required for double-strand break (DSB) repair and V(D)J recombination.<br>Must be bound to DNA to express its catalytic properties. Promotes processing of |

## Nanjing BYabscience technology Co.,Ltd

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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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