

DNA-PKcs mouse mAb

YM1312 Catalog No:

Reactivity: Human

Applications: WB;IP;ICC;IHC

Target: **DNA-PKCS**

Fields: >>Non-homologous end-joining;>>Cell cycle

Gene Name: prkdc

Human Gene Id: 5591

Human Swiss Prot

No:

Mouse Swiss Prot

Immunogen:

Specificity:

No:

P78527

P97313

This antibody detects endogenous levels of DNA-PKcs and does not cross-react

Purified recombinant human DNA-PKcs protein fragments expressed in E.coli

with related proteins.

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. Formulation:

Source: Monoclonal, Mouse

Dilution: wb 1:1000 icc 1:100

Purification: The antibody was affinity-purified from mouse ascites by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

-15°C to -25°C/1 year(Do not lower than -25°C) **Storage Stability:**

Observed Band: 450kD

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Cell Pathway: Non-homologous end-joining; Cell_Cycle_G1S; Cell_Cycle_G2M_DNA;

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],

Function: catalytic activity:ATP + a protein = ADP + a phosphoprotein.,enzyme

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 hairpin DNA structures in V(D)J recombination by activation of the hairpin endonuclease artemis (DCLRE1C). The assembly of the DNA-PK complex at DNA ends is also required for the NHEJ ligation step. Required to protect and

align broken ends of DNA. May also act as a scaffold protein to aid the localization of DNA repair proteins to the site of damage. Found at the ends of

chromosomes, suggesting a further role in the maintenance of

Subcellular Location:

Nucleus, nucleolus.

Expression: Brain, Cervix carcinoma, Epithelium, Fetal lung, Placen

Tag: ip

Sort : 5200

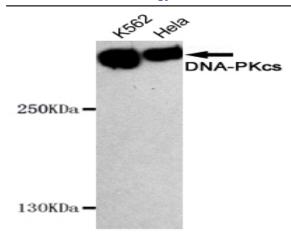
No4: 1

Host: Mouse

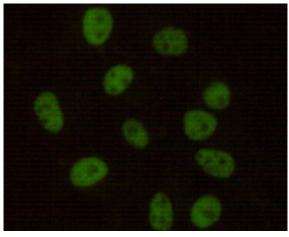
Modifications: Unmodified

Products Images

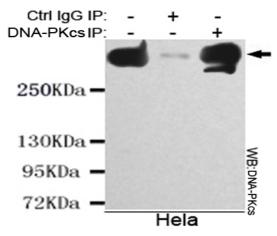
2/4



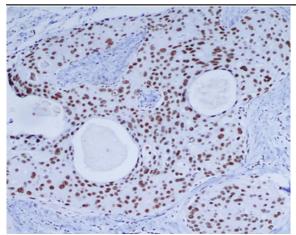
Western blot detection of DNA-PKcs in Hela and K562 cell lysates using DNA-PKcs mouse mAb (1:1000 diluted). Predicted band size:450KDa, Observed band size:450KDa.



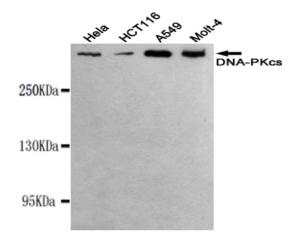
Immunocytochemistry stain of Hela using DNA-PKcs mouse mAb (1:100).



Immunoprecipitation analysis of Hela cell lysate using DNA-PKcs mouse mAb.



Immunohistochemical analysis of paraffin-embedded Breast cancer using DNA-PKcs mouse mAb (1/200 dilution). Antigen retrieval was performed by pressure cooking in citrate buffer (pH 6.0).



Western blot detection of DNA-PKcs in Hela,Molt-4,A549 and HCT116 cell lysates using DNA-PKcs mouse mAb (1:1000 diluted).Predicted band size:450KDa.Observed band size:450KDa.