

Purified anti-DNA-PKcs

Catalog # / Size: 612701 / 25 µg
612702 / 100 µg

Clone: 7A4

Isotype: Mouse IgG1, κ

Immunogen: Recombinant (partial)

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography.

Formulation: This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 50% glycerol. Final antibody concentration is 0.5 mg/ml.

Concentration: 0.5 mg/ml

Storage: Upon receipt, store frozen at -20° C.

Applications:

Applications: IF, WB

Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 5 µg per 5 ml antibody dilution buffer for each mini-gel. For immunofluorescence microscopy: Use a dilution range of 1–4 µg/ml. It is recommended that the reagent be titrated for optimal performance for each application.

Description: DNA-protein kinase catalytic subunit (DNA-PKcs) also known as DNA-activated kinase is a nuclear 460-470 kD serine threonine kinase involved in double-stranded DNA break repair, VDJ recombination, and transcriptional modulation. DNA-PKcs must bind DNA ends to become active. DNA-PKcs is modified by phosphorylation and has been shown to interact with Ku70/Ku80, KIP, DNA-ligase IV, and XRCC4 proteins. The 7A4 monoclonal antibody has recognizes human DNA-PKcs and has been shown to be useful for immunofluorescence staining and Western blotting.

Antigen References:

- Hartley K, *et al.* 1995. *Cell*. 82:849.
- Connelly M, *et al.* 1996. *Gene*. 175:271.
- Douglas P, *et al.* 2002. *Biochem. J.* 368:243
- Calsou P, *et al.* 2003. *J. Mol. Biol.* 326:93.

Related Products: Product

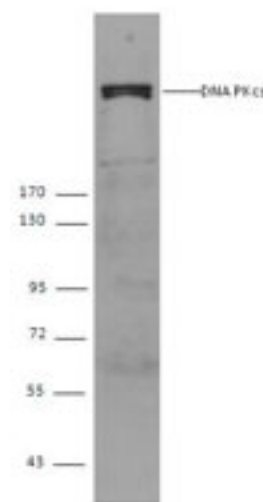
HRP Goat anti-mouse IgG (minimal x-reactivity)
Purified anti-DNA-PKcs Phosphorylated (Thr2609)
Purified anti-DNA-PKcs Phosphorylated (Thr2609)
Purified anti-Ku80
Purified anti-DNA-PKcs
Purified anti-Artemis

Clone

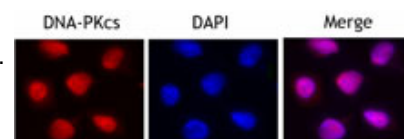
Poly4053
10B1
7G4
F3
Poly6126
Poly6198

Application

ELISA, IHC, WB
IF, WB
IHC, WB
IF, WB
WB
IF, WB



HeLa cell nuclear extracts were resolved by electrophoresis, transferred to nitrocellulose, and probed with anti-DNA-PKcs antibody (clone 7A4). Proteins were visualized using a goat anti-mouse-IgG secondary conjugated to HRP and chemiluminescence detection.



Immunofluorescent microscope analysis of HeLa cells using anti-DNA-PKcs monoclonal antibody (7A4) (red). Nuclei were stain with DAPI (blue).



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