Anti-DNA PKcs Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015553

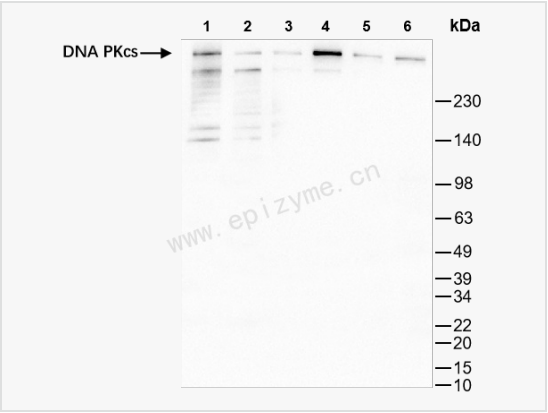
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	93F85Q66
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human DNA PKcs
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-DNA PKcs Rabbit mAb [93F85Q66] is for research use only and not for use in diagnostic or therapeutic procedures.

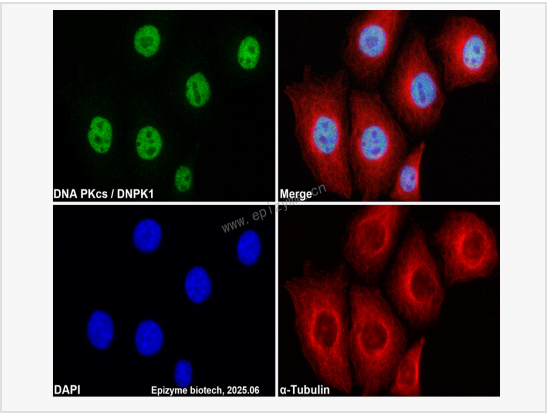
Protein Information

Synonyms	DNA dependent protein kinase catalytic subunit; DNA PK catalytic subunit; DNA-dependent protein kinase catalytic subunit; DNA-PK catalytic subunit; DNA-PKcs; DNAPK; DNAPK catalytic subunit; DNPK 1; DNPK1; Hyper radiosensitivity of murine scid mutation, complementing 1; Hyperradiosensitivity complementing 1, mouse, homolog of 1; HYRC 1; HYRC; HYRC1; IMD26; p350; p460; PKRDC; PRKDC; PRKDC_HUMAN; Protein Kinase DNA Activated Catalytic Polypeptide; XRCC 7; XRCC7.
Calculated MW	Calculated MW: 469 kDa; Observed MW: 469 kDa
Uniprot ID	P78527
Gene ID	5591
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]
Cellular Location	Nucleus.

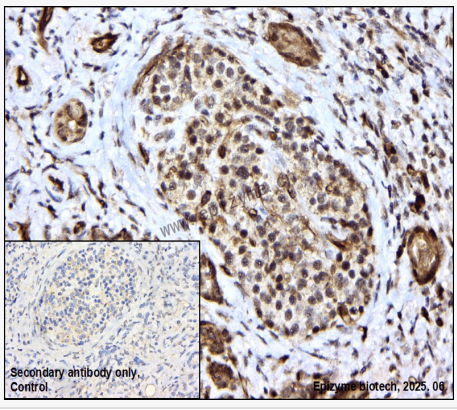
Validation Images



Western Blot - Anti-DNA PKcs Rabbit mAb [93F85Q66]
All lanes: R015553 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: 293T (Human embryonic kidney cell) whole cell lysates
Lane 5: K562 (Human chronic myeloid leukemia cell) whole cell lysates
Lane 6: U87 (Human malignant glioblastoma epithelial cells) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 469 kDa
Observed band size: 469 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-DNA PKcs Rabbit mAb [93F85Q66]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R015553 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-DNA PKcs Rabbit mAb [93F85Q66]
Sample: Paraformaldehyde-fixed, paraffin embedded human pancreatic cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015553 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.