Anti-Phospho-DNA PKcs (Ser2056) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015184

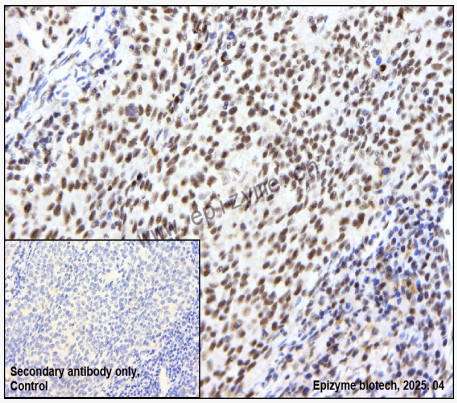
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:3,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	50D08H50
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized phosphopeptide corresponding to residues surrounding Ser2056 of 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-Phospho-DNA PKcs (Ser2056) Rabbit mAb [50D08H50] is for research use only and not for use in diagnostic or therapeutic procedures.

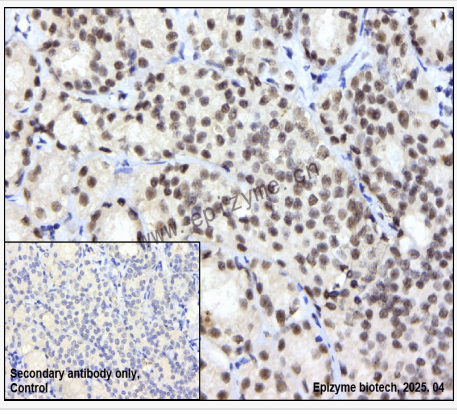
Protein Information

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.

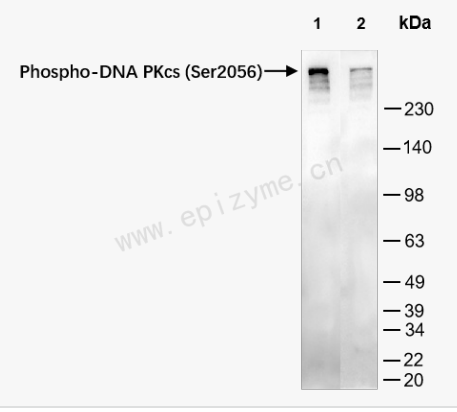
Validation Images



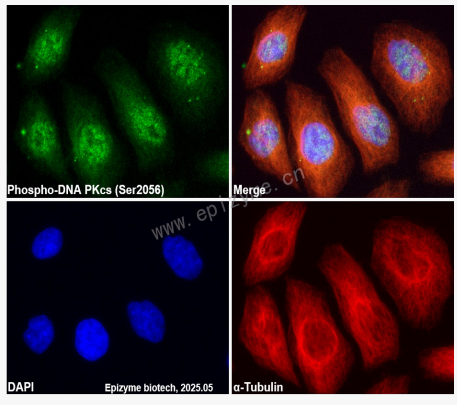
Immunohistochemistry - Anti-Phospho-DNA PKcs (Ser2056) Rabbit mAb [50D08H50]
Sample: Paraformaldehyde-fixed, paraffin embedded human cervical cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015184 at 1:200 dilution
Secondary antibody: Goat 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.



Immunohistochemistry - Anti-Phospho-DNA PKcs (Ser2056) Rabbit mAb [50D08H50]
Sample: Paraformaldehyde-fixed, paraffin embedded human breast cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015184 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.



Western Blot - Anti-Phospho-DNA PKcs (Ser2056) Rabbit mAb [50D08H50]
All lanes: R015184 at 1:3,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: T24 (Human bladder cancer epithelial cell) 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-Phospho-DNA PKcs (Ser2056) Rabbit mAb [50D08H50]
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: R015184 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).