

DNA-PKcs Rabbit mAb

Catalog NO.: A20837 **Recombinant** **3 Publications**

Basic Information

Observed MW

469 kDa

Calculated MW

469 kDa

Category

Monoclonal Antibodies

Applications

WB, IP, IF/ICC, IHC-P, ELISA

Cross-Reactivity

Human

Conjugation

Unconjugated

Clone number

ARC51265

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.

Recommended Dilutions

WB 1:1000 - 1:6000

IP
0.5 µg-4 µg antibody for 200 µg-600 µg extracts of whole cells

IF/ICC 1:200 - 1:1000
IHC-P 1:2000 - 1:8000

ELISA

Recommended starting concentration is 1 µg/mL.
Please optimize the concentration based on your specific assay requirements.

Contact

Immunogen Information

Gene ID	Swiss Prot
5591	P78527

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
HYRC; p350; DNAPK; DNPk1; HYRC1; IMD26; XRCC7; DNAPKc; DNA-PKc; DNA-PKcs

Product Information

☒		order@abclonal.com
☒		service@abclonal.com
☒		www.abclonal.com

Source

Rabbit

Isotype

IgG

Purification

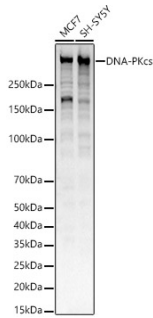
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



Western blot analysis of various lysates, using DNA-PKcs Rabbit mAb (A20837) at 1:5000 dilution.

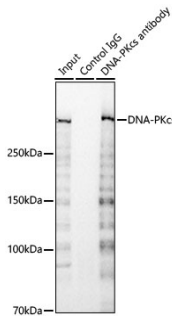
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

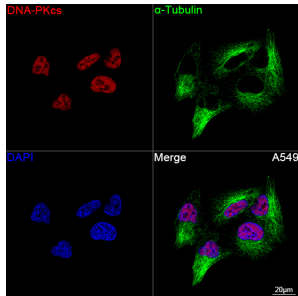
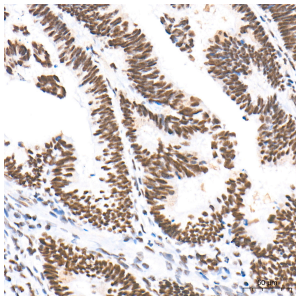
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 1s.



Immunoprecipitation of DNA-PKcs from 300 µg extracts of HeLa cells was performed using 1 µg of DNA-PKcs Rabbit mAb (A20837). Rabbit IgG isotype control (AC042) was used to precipitate the Control IgG sample. IP samples were eluted with 1X reducing Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using DNA-PKcs Rabbit mAb (A20837) at a dilution of 1:10000.



Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using DNA-PKcs Rabbit mAb (A20837) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

Antibody | Protein | ELISA Kit | Enzyme | NGS | Service

Confocal imaging of A549 cells using DNA-PKcs Rabbit mAb (A20837, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.

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