

Product Name: DNA PKcs (6D1) Mouse Monoclonal Antibody
Catalog #: AMM03659

Summary

Production Name	DNA PKcs (6D1) Mouse Monoclonal Antibody
Description	Mouse Monoclonal Antibody
Host	Mouse
Application	WB,IHC-F,IHC-P,ICC/IF,IP
Reactivity	Human

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG1
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Purification	Affinity Purification

Immunogen

Gene Name	PRKDC
Alternative Names	PRKDC; HYRC; HYRC1; DNA-dependent protein kinase catalytic subunit; DNA-PK catalytic subunit; DNA-PKcs; DNPK1; p460
Gene ID	5591
SwissProt ID	P78527.

Application

Dilution Ratio	WB: 1:500-1:1000 IHC: 1:50-1:100 IF: 1:50-1:200 IP: 1:20
Molecular Weight	Calculated MW: 469 kDa; Observed MW: 450 kDa

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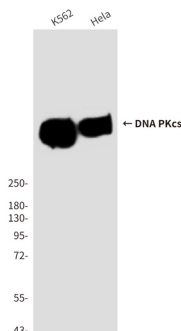
Background

The PRKDC gene encodes the catalytic subunit of a nuclear DNA-dependent serine/threonine protein kinase (DNA-PK). The second component is the autoimmune antigen Ku (MIM 152690), which is encoded by the G22P1 gene on chromosome 22q. On its own, the catalytic subunit of DNA-PK is inactive and relies on the G22P1 component to direct it to the DNA and trigger its kinase activity; PRKDC must be bound to DNA to express its catalytic properties.

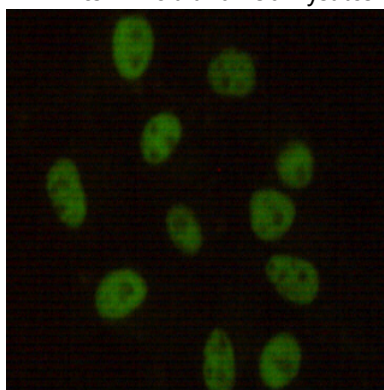
Research Area

Epigenetics and Nuclear Signaling

Image Data

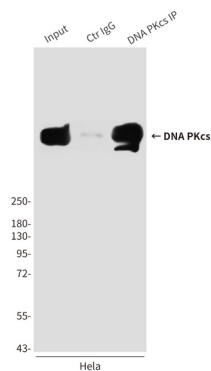


Western blot analysis of DNAPKcs in HeLa and K562 lysates using DNAPKcs antibody.

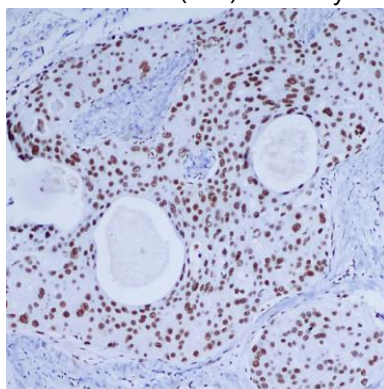


Immunocytochemistry analysis of DNA PKcs (6D1) in HeLa using DNAPKcs antibody.

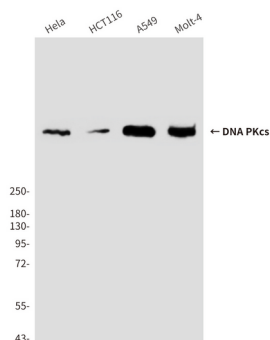
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Immunoprecipitation analysis of DNA PKcs (6D1) in HeLa lysates using DNAPKcs antibody.



Immunohistochemistry analysis of paraffin-embedded Breast cancer using DNAPKcs antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Western blot analysis of DNAPKcs in HeLa, Molt4, A549 and HCT116 lysates using DNAPKcs antibody.

Note

For research use only.