Product Name: DNA PKcs (6D1) Mouse Monoclonal Antibody
Catalog #: AMM03659
For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,IHC,ICC/IF,IP
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG1
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% sodium azide, pH 7.3.
Purification	Affinity Purification

Application

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

Antigen Information

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
Immunogen	A synthetic peptide corresponding to target protein

Background

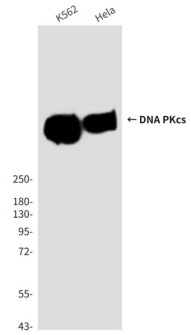
The PRKDC gene encodes the catalytic subunit of a nuclear DNA-dependent serine/threonine protein kinase (DNA-PK). The

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.

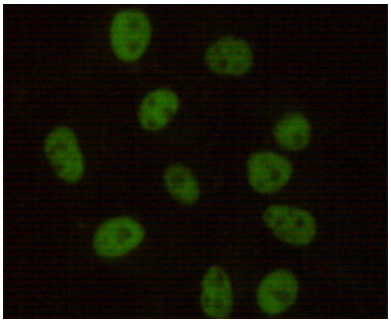
Research Area

Epigenetics and Nuclear Signaling

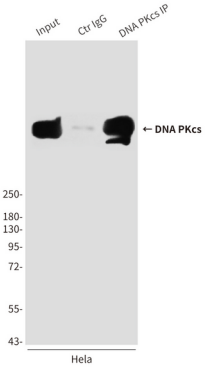
Image Data



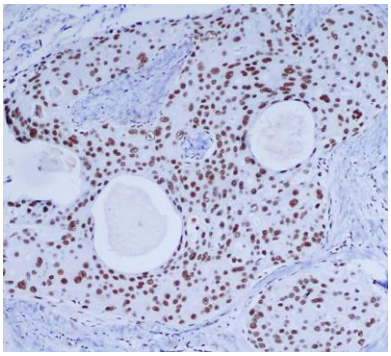
Western blot analysis of DNAPKcs in Hela and K562 lysates using DNAPKcs antibody.



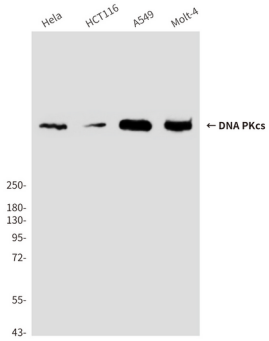
Immunocytochemistry analysis of DNA PKcs (6D1) in Hela using DNAPKcs antibody.



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.