Anti-DNA PKcs Mouse mAb

Purified Mouse Monoclonal Antibody

Catalog # M012020

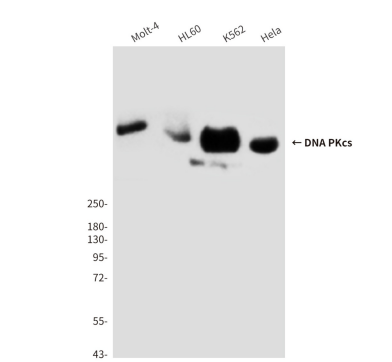
Product Information

Application	IP, ELISA, WB, ICC/IF (Cell)
Reactivity	Human
Dilution	WB 1:500~1:1,000; IF 1:50~1:200; IP 1:20
Host	Mouse
Clonality	Monoclonal
Clone No.	59L32M29
Isotype	IgG2b
Label	Unconjugated
Immunogen	Purified recombinant human DNA-PKcs protein fragments expressed in E.coli
Format	Buffer System: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3. Purification: Affinity Purified.
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 antibody [59L32M29] is for research use only and not for use in diagnostic or therapeutic procedures.

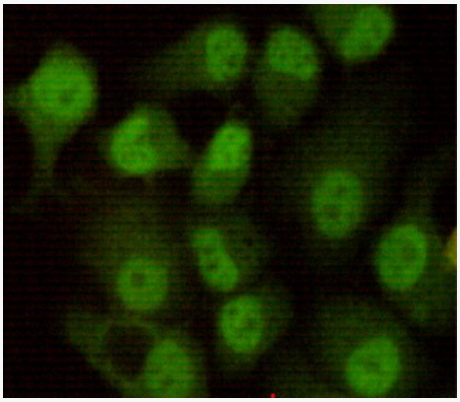
Protein Information

Synonyms	PRKDC, HYRC, HYRC1, DNA-dependent protein kinase catalytic subunit, DNA-PK catalytic subunit, DNA-PKcs, DNPK1, p460.
Calculated MW	Calculated MW: 469 kDa; Observed MW: 450 kDa
Uniprot ID	P78527
Gene ID	5591
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.

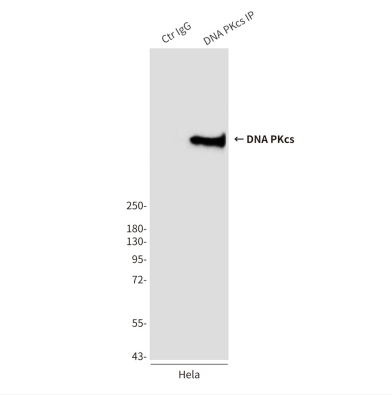
Validation Images



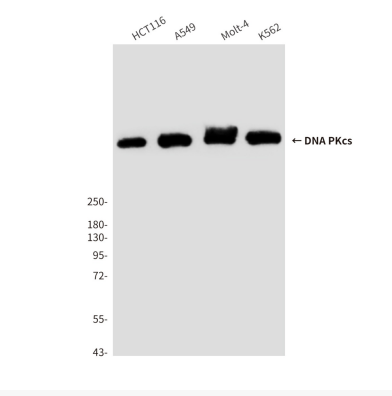
Western blot analysis of DNA PKcs in Hela, K562, HL-60 and MOLT4 lysates using DNA PKcs antibody [59L32M29].



Immunocytochemistry analysis of DNA PKcs in Hela using DNA PKcs antibody [59L32M29].



Immunoprecipitation analysis of DNA PKcs in Hela lysates using DNA PKcs antibody [59L32M29].



Western blot analysis of DNA PKcs in K562, Molt4, A549 and HCT116 lysates using DNA PKcs antibody [59L32M29].