

Anti-DNA PKcs Mouse mAb

Purified Mouse Monoclonal Antibody

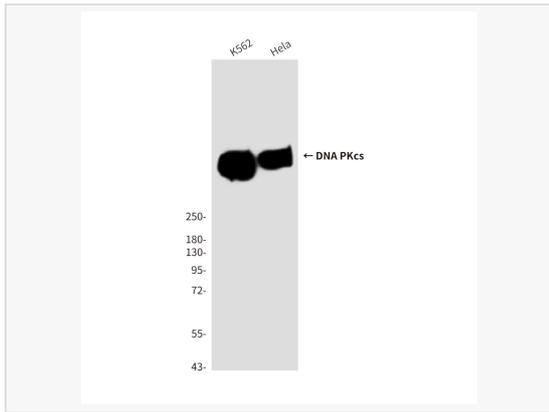
Catalog # M013512

Product Information

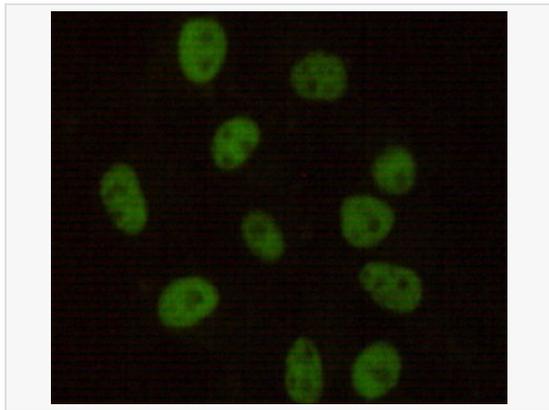
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|-------------|---|
| Application | WB, IHC-F/IF (Tissue-F), IHC-P/IF (Tissue-P), ICC/IF (Cell), IP, ELISA |
| Reactivity | Human |
| Dilution | WB 1:500~1:1,000; IHC-P 1:50~1:100; IF 1:50~1:200; IP 1:20 |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone No. | 45K78K32 |
| Isotype | IgG1 |
| 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 [45K78K32] is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

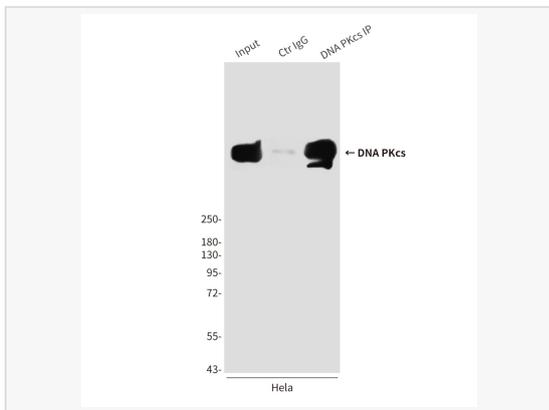
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|---------------|--|
| Synonyms | PRKDC, HYRC, HYRC1, DNA-dependent protein kinase catalytic subunit, DNA-PK catalytic subunit, DNA-PKcs, DNPk1, p460. |
| Calculated MW | Calculated MW: 469 kDa; Observed MW: 450 kDa |
| Uniprot ID | P78527 |
| Gene 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. |



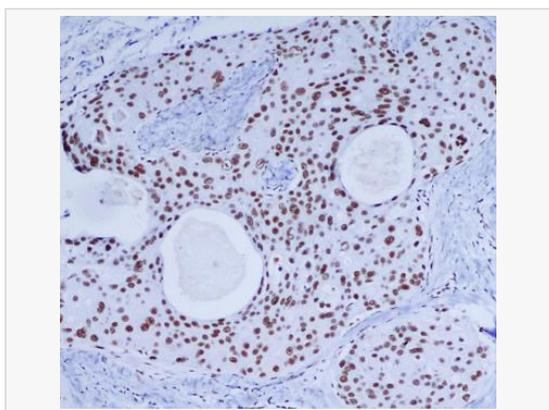
Western blot analysis of DNA PKcs in HeLa and K562 lysates using DNA PKcs antibody [45K78K32].



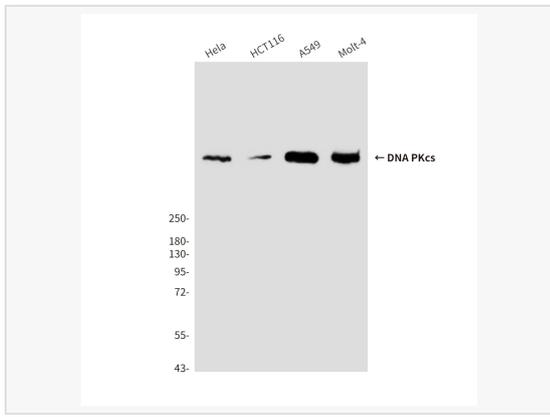
Immunocytochemistry analysis of DNA PKcs in HeLa using DNAPKcs antibody [45K78K32].



Immunoprecipitation analysis of DNA PKcs in HeLa lysates using DNA PKcs antibody [45K78K32].



Immunohistochemistry analysis of paraffin-embedded Breast cancer using DNA PKcs antibody [45K78K32]. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Western blot analysis of DNA PKcs in HeLa, Molt4, A549 and HCT116 lysates using DNA PKcs antibody [45K78K32].