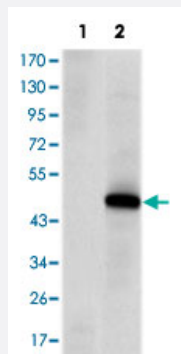


PRKDC monoclonal antibody, clone 3H6

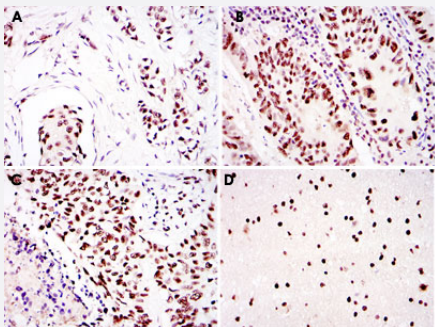
Catalog # MAB10303 Size 100 uL

Applications



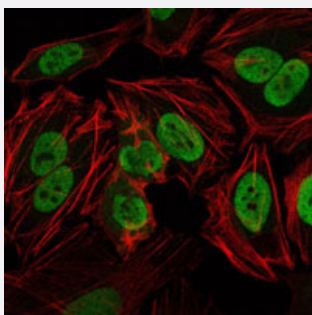
Western Blot (Transfected lysate)

Western blot analysis using PRKDC monoclonal antibody, clone 3H6 (Cat # MAB10303) against HEK293 (1) and PRKDC-hlgGfC transfected HEK293 (2) cell lysate.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast cancer (A), colon cancer (B), lung cancer (C) and brain tissue (D) using PRKDC monoclonal antibody, clone 3H6 (Cat # MAB10303) with DAB staining.



Immunofluorescence

Immunofluorescence analysis of HeLa cells using PRKDC monoclonal antibody, clone 3H6 (Cat # MAB10303) (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

Specification

Product Description

Mouse monoclonal antibody raised against recombinant PRKDC.

Immunogen	Recombinant protein corresponding to human PRKDC.
Host	Mouse
Theoretical MW (kDa)	46.9
Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry (1:200-1:1000) Immunofluorescence (1:200-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascites (0.03% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Transfected lysate)

Western blot analysis using PRKDC monoclonal antibody, clone 3H6 (Cat # MAB10303) against HEK293 (1) and PRKDC-hlgGfC transfected HEK293 (2) cell lysate.

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — PRKDC

Entrez GeneID	5591
Gene Name	PRKDC
Gene Alias	DNA-PKcs, DNAPK, DNP1, HYRC, HYRC1, XRCC7, p350
Gene Description	protein kinase, DNA-activated, catalytic polypeptide
Omim ID	600899
Gene Ontology	Hyperlink
Gene Summary	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.[supplied by OMIM]
Other Designations	hyper-radiosensitivity of murine scid mutation, complementing 1

Pathway

- [Cell cycle](#)
- [Non-homologous end-joining](#)

Disease

- [Adenocarcinoma](#)
- [Ataxia telangiectasia](#)
- [Bone Neoplasms](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Central Nervous System Neoplasms](#)
- [DNA Damage](#)
- [Genetic Predisposition to Disease](#)

- [Glioma](#)
- [Head and Neck Neoplasms](#)
- [Hematologic Diseases](#)
- [Hodgkin Disease](#)
- [Kidney Neoplasms](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Multiple Sclerosis](#)
- [Neoplasms](#)
- [Occupational Diseases](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)