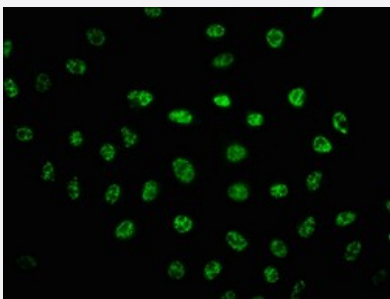


RecomAb™

PRKDC (phospho S2056) recombinant monoclonal antibody, clone 4A4

Catalog # RAB04299 Size 100 uL

Applications



Immunofluorescence

Immunofluorescent staining of HeLa cells with PRKDC (phospho S2056) recombinant monoclonal antibody, clone 4A4 (Cat # RAB04299) (diluted at 1:100). The secondary antibody was Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human PRKDC.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic phosphopeptide corresponding to residues surrounding S2056 of human PRKDC.
Reactivity	Human
Form	Liquid
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Immunofluorescence (1:20-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)

Storage Instruction

Store at -20 °C or -80 °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

- Immunofluorescence

Immunofluorescent staining of Hela cells with PRKDC (phospho S2056) recombinant monoclonal antibody, clone 4A4 (Cat # RAB04299) (diluted at 1:100). The secondary antibody was Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — PRKDC

Entrez GeneID[5591](#)**Protein Accession#**[P78527](#)**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](#)