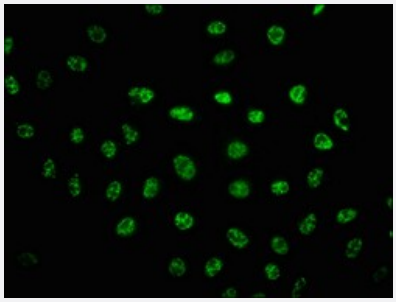
RecomAb™

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) (diluated at 1:100). The secondary antibody was Alexa Fluor 488-congugated 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 surroundin g S2056 of human PRKDC.
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Immunofluorescence (1:20-1:200) The optimal working dilution should be determined by the end user.

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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 shoul d be handled by trained staff only.

Applications

- Immunofluorescence

  Immunofluorescent staining of Hela cells with PRKDC (phospho S2056) recombinant monoclonal antibody, clone 4A4 (Cat # RAB04299) (diluated at 1:100). The secondary antibody was Alexa Fluor 488-congugated 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, DNPK1, 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 pr otein kinase (DNA-PK). The second component is the autoimmune antigen Ku (MIM 152690), whi ch 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 ac tivity; 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

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- 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

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- Prostatic Neoplasms
- Thyroid Neoplasms
- Tobacco Use Disorder
- Urinary Bladder Neoplasms
- Waldenstrom Macroglobulinemia
- Werner syndrome

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