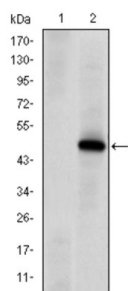
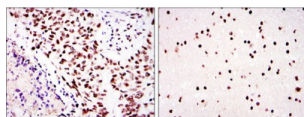


DNA-Dependent Protein Kinase Catalytic Subunit (PRKDC) Antibody

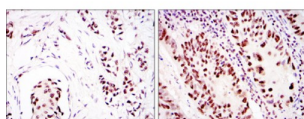
Catalogue No.: abx011674



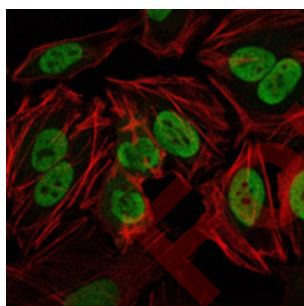
Western blot analysis using PRKDC antibody against HEK293 (1) and PRKDC (AA: 2638-2971) -hlgGfC transfected HEK293 (2) cell lysate.



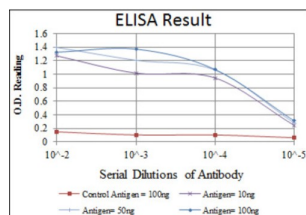
Immunohistochemical analysis of paraffin-embedded breast cancer (left) and colon cancer (right) using PRKDC antibody with DAB staining.



Immunohistochemical analysis of paraffin-embedded lung cancer (left) and brain tissues (right) using PRKDC antibody with DAB staining.



Immunofluorescence analysis of HeLa cells using PRKDC antibody (green). Red: Actin filaments have been labeled with AF555 phalloidin.



Red: Control Antigen (100ng) ; Purple: Antigen (10ng) ; Green: Antigen (50ng) ; Blue: Antigen (100ng).

Datasheet

Version: 3.0.0
Revision date: 04 Oct 2025



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.

Target:	DNA-Dependent Protein Kinase Catalytic Subunit (PRKDC)
Clonality:	Monoclonal
Reactivity:	Human
Tested Applications:	ELISA, IHC, IF/ICC
Host:	Mouse
Recommended dilutions:	ELISA: 1/10000, IHC: 1/200 - 1/1000, IF/ICC: 1/200 - 1/1000. Optimal dilutions/concentrations should be determined by the end user.
Conjugation:	Unconjugated
Immunogen:	Purified recombinant fragment of human PRKDC expressed in E. coli.
Isotype:	IgG ₁
Form:	Liquid
Purification:	Unpurified ascites.
Storage:	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
UniProt Primary AC:	P78527 (UniProt , ExPASy)
Gene Symbol:	PRKDC
GeneID:	5591
OMIM:	600899
HGNC:	9413
KEGG:	hsa:5591
Ensembl:	ENSG00000253729
String:	9606.ENSP00000313420

Datasheet

Version: 3.0.0

Revision date: 04 Oct 2025



Enzyme Commission Number: EC 2.7.11.1

Molecular Weight: 46.9 kDa

Buffer: Ascitic fluid containing 0.03% sodium azide.

Concentration: Not determined.

Note: THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

For Reference Only