

Rabbit DNA-PKcs/PRKDC Polyclonal Antibody | anti-PRKDC antibody

Anti-DNA-PKcs/PRKDC Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254443	Rabbit	Human Predicted to React with: Mouse (Species predicted to react based on 100% sequence homology)	Immunofluorescence, Immunocytochemistry, Immunohistochemistry

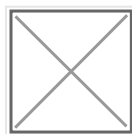
PRODUCT SYNONYMS

DNA-PKcs/PRKDC; Polyclonal Antibody; Anti-DNA-PKcs/PRKDC Antibody; Rabbit Polyclonal; PRKDC Antibody; Rabbit PAb; Antigen Affinity Purified; protein kinase; DNA-activated; catalytic polypeptide; Anti-DNA-PKcs Antibody; Anti-DNAPK Antibody; Anti-DNPK1 Antibody; Anti-HYRC Antibody; Anti-HYRC1 Antibody; Anti-IMD26 Antibody; Anti-p350 Antibody; Anti-XRCC7 Antibody; anti-PRKDC antibody

PRODUCT SPECIFICATIONS

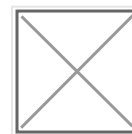
Host	Rabbit
Reactivity	Human Predicted to React with: Mouse (Species predicted to react based on 100% sequence homology)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human DNA-PKcs/PRKDC
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-PRKDC antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry)
Immunogen	A synthetic peptide corresponding to the C-terminus of the Human PRKDC
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the C-terminus of the Human PRKDC, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of PRKDC in HeLa cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-human PRKDC polyclonal antibody (1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to nucleus.



IHC (Immunohistochemistry)

Immunochemical staining of human PRKDC in human breast carcinoma with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-PRKDC antibody	PRKDC encodes for DNA-dependent protein kinase catalytic subunit (DNA-PKcs), a kinase that forms part of a complex (DNA-dependent protein kinase [DNA-PK]) crucial for DNA double-strand break repair and V(D)J recombination. PRKDC expression was significantly increased in breast cancer tissue samples compared with NATs. High PRKDC expression was associated with higher tumor grade (P=0.001), positive lymph node metastasis (P=0.0357) and chemoresistance (P=0.0006). Furthermore, PRKDC expression was significantly correlated with OS in breast cancer patients with (0.0101) or without (P=0.0216) receiving chemotherapy. Collectively, PRKDC is a prognostic biomarker for chemoresistance in breast cancer patients.
Product Categories/Family for anti-PRKDC antibody	AKT Signaling Pathway

NCBI AND UNIPROT INFORMATION

NCBI GI #	126032350
NCBI GeneID	5591
NCBI Accession #	NP_001075109.1
NCBI GenBank Nucleotide #	NM_001081640.1
UniProt Accession #	P78527 ; P78528 ; Q13327 ; Q13337 ; Q14175 ; Q59H99 ; Q7Z611 ; Q96SE6 ; Q9UME3
Molecular Weight	469,089 Da
NCBI Official Full Name	DNA-dependent protein kinase catalytic subunit isoform 2
NCBI Official Synonym Full Names	protein kinase, DNA-activated, catalytic polypeptide
NCBI Official Symbol	PRKDC
NCBI Official Synonym Symbols	HYRC; p350; DNAPK; DNPk1; HYRC1; XRCC7; DNA-PKcs
NCBI Protein Information	DNA-dependent protein kinase catalytic subunit; p460; DNA-PK catalytic subunit; hyper-radiosensitivity of murine scid mutation, complementing 1
UniProt Protein Name	DNA-dependent protein kinase catalytic subunit
UniProt Gene Name	PRKDC
UniProt Synonym Gene Names	HYRC; HYRC1; DNA-PK catalytic subunit; DNA-PKcs
UniProt Entry Name	PRKDC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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