

Mouse anti-Human DNA-PKcs Monoclonal Antibody | anti-DNA-PKcs antibody

DNA-PKcs Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA300797	Mouse	Human	Immunocytochemistry, Immunoprecipitation, Western Blot

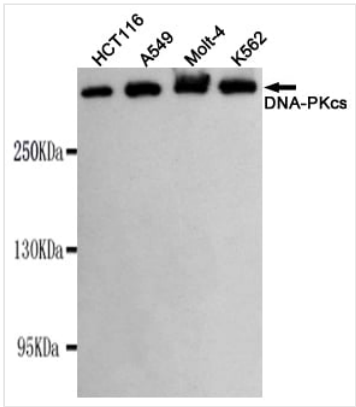
PRODUCT SYNONYMS

DNA-PKcs; Monoclonal Antibody; DNA-PKcs Monoclonal Antibody; DNA dependent protein kinase catalytic subunit; DNA PKcs; DNA-dependent protein kinase catalytic subunit; DNA-PK catalytic subunit; DNAPK; DNPK1; hyper radiosensitivity of murine scid mutation; complementing 1; HYRC; HYRC1; p350; p460; PRKDC; anti-DNA-PKcs antibody

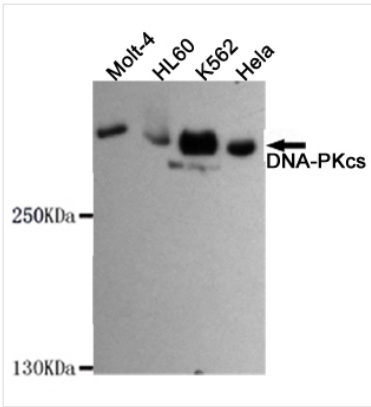
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	8D3-B12-F11
Specificity	This antibody detects endogenous levels of DNA-PKcs, and does not cross-react with related proteins.
Purity/Purification	Affinity purified
Form/Format	Purified mouse monoclonal in PBS(pH 7.4) containing with 0.2% sodium azide, 50% glycerol.
Sequence Length	4097
Applicable Applications for anti-DNA-PKcs antibody	ICC (Immunocytochemistry), IP (Immunoprecipitation), WB (Western Blot)
Immunogen Type	Recombinant Protein
Immunogen Description	Purified recombinant human DNA-PKcs protein fragments expressed in E Coli
Target Name	DNA-PKcs
Preparation and Storage	Store at -20 degree C

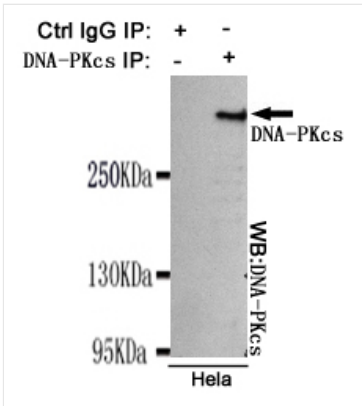
IMAGES



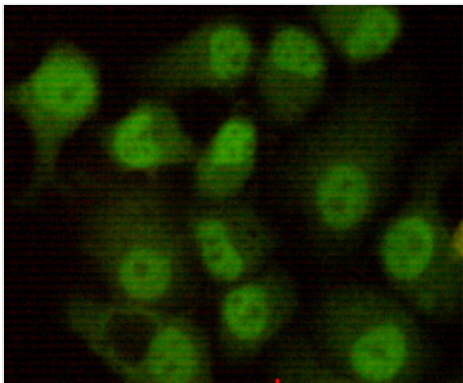
WB (Western Blot)
Western blot detection of PRKDC in K562,Molt-4,A549 and HCT116 cell lysates using PRKDC antibody(1:1000 diluted).Predicted band size:450KDa.Observed band size:450KDa.



WB (Western Blot)
Western blot detection of PRKDC in HeLa,K562,HL-60&MOLT-4 cell lysates using PRKDC antibody(1:1000 diluted).Predicted band size:450KDa.Observed band size:450KDa



IP (Immunoprecipitation)
Immunoprecipitation analysis of HeLa cell lysates using PRKDC antibody



ICC (Immunocytochemistry)
Immunocytochemistry stain of HeLa using PRKDC antibody (1:200).

ADDITIONAL INFORMATION

Related Product Information for anti-DNA-PKcs antibody	properties.Promotes processing of hairpin DNA structures in V(D)J recombination by activation of the hairpin endonuclease artemis(DCLRE1C).The assembly of the DNA-PK complex at DNA ends is also required for the NHEJ ligation step.Required to protect and align broken ends of DNA.May also act as a scaffold protein to aid the localization of DNA repair proteins to the site of damage.Found at the ends of chromosomes,suggesting a further role in the maintenance of telomeric stability and the prevention of chromosomal end fusion.Also involved in modulation of transcription.Recognizes the substrate consensus sequence[ST]-Q.Phosphorylates'Ser-139' of histone variant H2AX/H2AFX,thereby regulating DNA damage response mechanism.Phosphorylates DCLRE1C,c-Abl/ABL1,histone H1,HSPCA,c-jun/JUN,p53/TP53, PARP1, POU2F1, DHX9, SRF, XRCC1, XRCC1, XRCC4, XRCC5, XRCC6, WRN, MYC and RFA2.Can phosphorylate C1D not only in the presence of linear DNA but also in the presence of supercoiled DNA.Ability to phosphorylate p53/TP53 in the presence of supercoiled DNA is dependent on C1D.
Product Categories/Family for anti-DNA-PKcs antibody	Total protein Ab

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	465,501 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; IMD26; XRCC7; DNA-PKcs
NCBI Protein Information	DNA-dependent protein kinase catalytic subunit
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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Online datasheet: <https://stage.aaabiotech.com/monoclonal/dna-pkcs-antibody-clone-8d3-b12-f11-immunocytochemistry-immunoprecipitation-western-blot-elisa/300797>