antibodies

Datasheet for ABIN6241643 anti-PRKDC antibody

4 Images



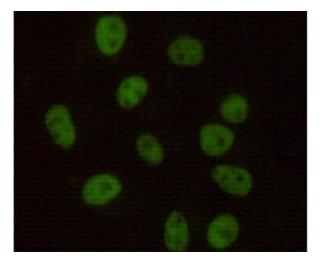
Overview

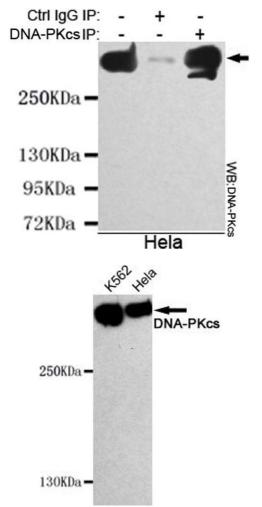
Quantity:	100 µL
Target:	PRKDC
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PRKDC antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP),
	Immunocytochemistry (ICC)
Product Details	
Immunogen:	Recombinant Protein
Target Details	
Target:	PRKDC
Alternative Name:	DNA-PKcs (PRKDC Products)
Background:	Serine/threonine-protein kinase that acts as a molecular sensor for DNA damage. Involved in
	DNA non-homologous end joining (NHEJ) required for double-strand break (DSB) repair and
	V(D)J recombination. Must be bound to DNA to express its catalytic 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.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN6241643 | 09/10/2023 | Copyright antibodies-online. All rights reserved.

	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. Contributes to the determination of the circadian period length by
	antagonizing phosphorylation of CRY1 'Ser-588' and increasing CRY1 protein stability, most
	likely through an indirect machanism. Interacts with CRY1 and CRY2, negatively regulates CRY1
	phosphorylation.
UniProt:	P78527
Pathways:	DNA Damage Repair, Production of Molecular Mediator of Immune Response
Application Dataila	
Application Details	
Application Notes:	IP: 1:500. WB: 1:1000. IHC: 1:100. ICC: 1:100
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Storage:	4 °C,-20 °C





Immunocytochemistry

Image 1. Immunocytochemistry stain of Hela using DNA-PKcs mouse mAb (1:100).

Immunoprecipitation

Image 2. Immunoprecipitation analysis of Hela cell lysate using DNA-PKcs mouse mAb.

Western Blotting

Image 3. Western blot detection of DNA-PKcs in Hela and K562 cell lysates using DNA-PKcs mouse mAb (1:1000 diluted).Predicted band size:450KDa,Observed band size:450KDa.

Please check the product details page for more images. Overall 4 images are available for ABIN6241643.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/3 | Product datasheet for ABIN6241643 | 09/10/2023 | Copyright antibodies-online. All rights reserved.