

Datasheet for ABIN969366

anti-PRKDC antibody

5 Images

2 Publications

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Overview

Quantity:	100 µL
Target:	PRKDC
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC)

Product Details

Immunogen:	Purified recombinant fragment of human PRKDC expressed in E. coli.
Clone:	3H6
Isotype:	IgG1
Purification:	purified

Target Details

Target:	PRKDC
Alternative Name:	PRKDC (PRKDC Products)
Background:	Description: 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

Target Details

	properties. Aliases: HYRC, p350, DNAPK, DNPK1, HYRC1, XRCC7, DNA-PKcs, PRKDC
Molecular Weight:	46.9 kDa
Gene ID:	5591
HGNC:	5591
Pathways:	DNA Damage Repair , Production of Molecular Mediator of Immune Response

Application Details

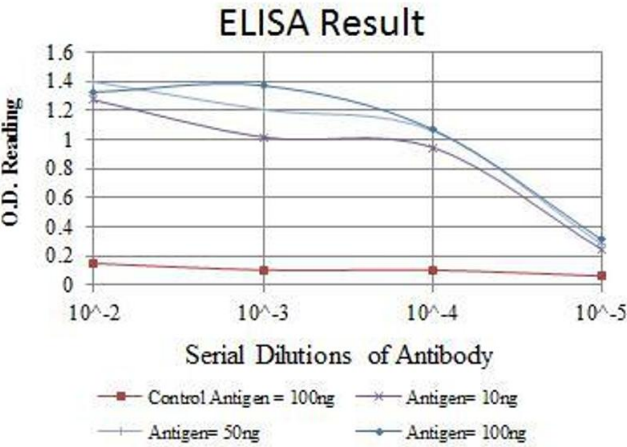
Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000, ICC: 1:200 - 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage

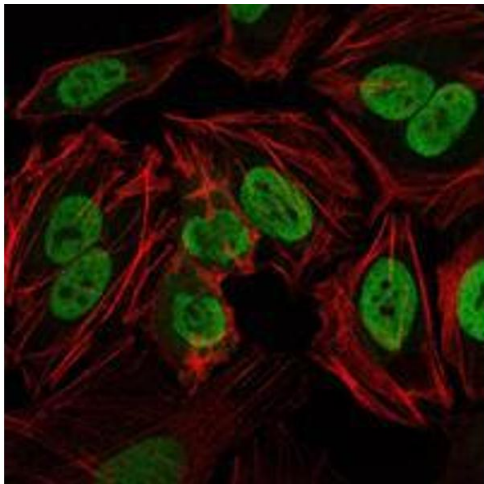
Publications

Product cited in:	<p>Durkin, Guo, Fryrear, Mihaylova, Gupta, Belgnaoui, Haoudi, Kupfer, Semmes: "HTLV-1 Tax oncoprotein subverts the cellular DNA damage response via binding to DNA-dependent protein kinase." in: The Journal of biological chemistry, Vol. 283, Issue 52, pp. 36311-20, (2008) (PubMed).</p> <p>Huston, Lynch, Mohamed, Collins, Hill, MacLeod, Krause, Baillie, Houslay: "EPAC and PKA allow cAMP dual control over DNA-PK nuclear translocation." in: Proceedings of the National Academy of Sciences of the United States of America, Vol. 105, Issue 35, pp. 12791-6, (2008) (PubMed).</p>
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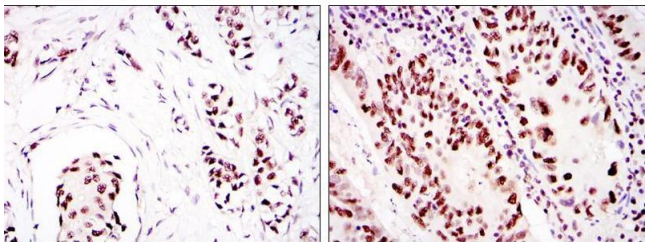
ELISA

Image 1. Red: Control Antigen (100 ng), Purple: Antigen (10 ng), Green: Antigen (50 ng), Blue: Antigen (100 ng),



Immunofluorescence

Image 2. Immunofluorescence analysis of HeLa cells using PRKDC mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Immunohistochemistry

Image 3. Immunohistochemical analysis of paraffin-embedded breast cancer (left) and colon cancer (right) using PRKDC mouse mAb with DAB staining.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN969366.