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Datasheet for ABIN6938197
anti-PLK1.S antibody

Overview

Quantity:	100 µg
Target:	PLK1.S
Reactivity:	Xenopus laevis
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PLK1.S antibody is un-conjugated
Application:	Coating (Coat), ELISA, Western Blotting (WB)

Product Details

Immunogen:	Recombinant full-length PLK1 Xenopus laevis protein
Clone:	AZ44
Isotype:	IgG1 kappa
Specificity:	<p>Plk (for polo-like kinase) encodes a serine/threonine kinase that is closely related to polo and CDC5, genes that are required for passage through mitosis in Drosophila and Saccharomyces, respectively. Polo and Cdc5 both code for proteins that are involved in regulating the function of the mitotic spindle. Plk protein accumulates in the cell during the S and G2 phases of the cell cycle, Plk protein content and catalytic activity peak at the onset of mitosis, followed by a rapid reduction after mitosis. Plk expression is detectable in mitotically active tissues such as colon and placenta, as well as in tumors of various origins. It has also been suggested that Plk may serve as a marker of cell proliferation. Required for recovery after DNA damage checkpoint and entry into mitosis. Required for kinetochore localization of BUB1B. Phosphorylates SGOL1.</p> <p>Required for spindle pole localization of isoform 3 of SGOL1 and plays a role in regulating its</p>

Product Details

centriole cohesion function. Phosphorylates BORA, and thereby promotes the degradation of BORA. Contributes to the regulation of AURKA function. Regulates TP53 stability through phosphorylation of TOPORS. Useful for confirming that extracts have maintained CSF status and have not yet been activated into interphase.

No Cross-Reactivity:	Human, Mouse (Murine)
Cross-Reactivity (Details):	Xenopus laevis. Does not react with Human or Mouse.
Purification:	1.0mg/ml of Ab purified from Bioreactor by Protein A/G.

Target Details

Target:	PLK1.S
Alternative Name:	plk1.S (PLK1.S Products)
Background:	Cell cycle regulated protein kinase, Polo like kinase 1 (PLK1), Serine/threonine-protein kinase PLK1, STPK13,PLK1 (Marker of Mitosis) Cellular localisation: Nucleus and cytoplasm.
Molecular Weight:	66kDa
Gene ID:	380481, 28141
UniProt:	P70032

Application Details

Application Notes:	Known_Application: ELISA (For coating, order antibody without BSA), Western Blot (1-2 µg/mL), Optimal dilution for a specific application should be determined. Positive_Control: Mitotic CSF Xenopus egg extract.
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Restrictions:	For Research Use only
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Handling

Concentration:	1.0 mg/mL
Buffer:	Prepared in 10 mM PBS, WITHOUT BSA and Azide.
Preservative:	Azide free
Storage:	-20 °C,-80 °C
Storage Comment:	Antibody without azide store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous.

Handling

Expiry Date: 24 months