



[Go to Product page](#)

Datasheet for ABIN6939848

anti-PLK1.S antibody

1 Image

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
No Cross-Reactivity:	Human, Mouse (Murine)
Purification:	Purified by Protein A/G

Target Details

Target:	PLK1.S
Alternative Name:	plk1.S (PLK1.S Products)
Background:	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,

Target Details

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. Required for spindle pole localization of isoform 3 of SGOL1 and plays a role in regulating its 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.

Molecular Weight: 66kDa

Gene ID: 380481

UniProt: [P70032](#)

Application Details

Application Notes: Positive Control: Mitotic CSF Xenopus egg extract.
Known Application: ELISA (For coating, order antibody without BSA), Western Blot (1-2 µg/mL) Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

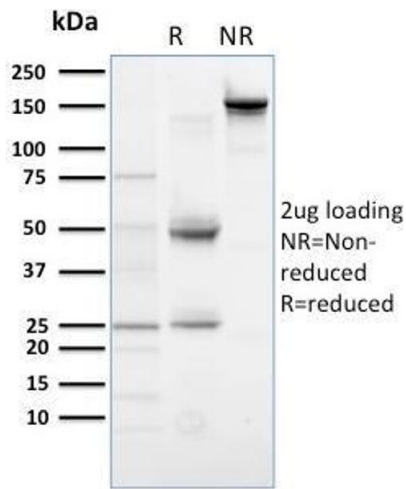
Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

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, -80 °C

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.



SDS-PAGE

Image 1. SDS-PAGE Analysis Purified PLK1 Mouse Monoclonal Antibody (AZ44). Confirmation of Purity and Integrity of Antibody.