

Datasheet for ABIN6243950  
**anti-PLK4 antibody (AA 724-758)**



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1 Image

## Overview

Quantity:	200 µL
Target:	PLK4
Binding Specificity:	AA 724-758
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PLK4 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	This PLK4 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 724-758 amino acids from the region of human PLK4.
Clone:	RB53118
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

## Target Details

Target:	PLK4
Alternative Name:	PLK4 ( <a href="#">PLK4 Products</a> )
Target Type:	Phage Protein

## Target Details

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**Background:** Serine/threonine-protein kinase that plays a central role in centriole duplication. Able to trigger procentriole formation on the surface of the parental centriole cylinder, leading to the recruitment of centriole biogenesis proteins such as SASS6, CENPJ/CPAP, CCP110, CEP135 and gamma-tubulin. When overexpressed, it is able to induce centrosome amplification through the simultaneous generation of multiple procentrioles adjoining each parental centriole during S phase. Phosphorylates 'Ser-151' of FBXW5 during the G1/S transition, leading to inhibit FBXW5 ability to ubiquitinate SASS6. Its central role in centriole replication suggests a possible role in tumorigenesis, centrosome aberrations being frequently observed in tumors. Also involved in deuterosome-mediated centriole amplification in multiciliated that can generate more than 100 centrioles. Also involved in trophoblast differentiation by phosphorylating HAND1, leading to disrupt the interaction between HAND1 and MDFIC and activate HAND1. Phosphorylates CDC25C and CHEK2.

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**Molecular Weight:** 108972

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**UniProt:** [O00444](#)

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**Pathways:** [M Phase](#)

## Application Details

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**Application Notes:** WB: 1:2000

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**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

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**Buffer:** Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

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**Preservative:** Sodium azide

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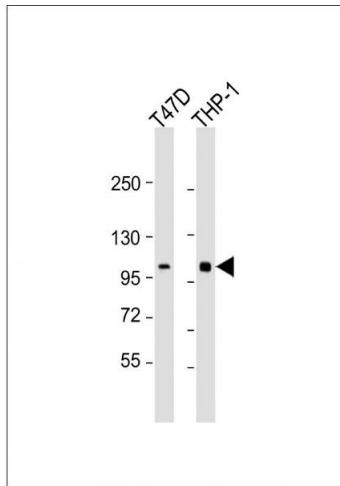
**Precaution of Use:** This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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**Storage:** 4 °C,-20 °C

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**Expiry Date:** 6 months



### Western Blotting

**Image 1.** All lanes : Anti-PLK4 Antibody (C-Term) at 1:2000 dilution Lane 1: T47D whole cell lysate Lane 2: THP-1 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 109 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.