


Product datasheet

Anti-PLK1 antibody ab70695

1 图像

概述

产品名称	Anti-PLK1抗体
描述	兔多克隆抗体to PLK1
宿主	Rabbit
经测试应用	适用于: WB, IP
种属反应性	与反应: Human 预测可用于: Mouse, Rabbit, Xenopus laevis, Chimpanzee, Rhesus monkey, Gorilla, Orangutan 
免疫原	Synthetic peptide corresponding to a region between residues 1 and 50 of human PLK1.
阳性对照	Hela whole cell lysate.

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	Preservative: 0.09% Sodium Azide Constituents: 8mM PBS, 60mM Citrate, 150mM Tris, pH 7-8
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab70695** in the following tested applications.

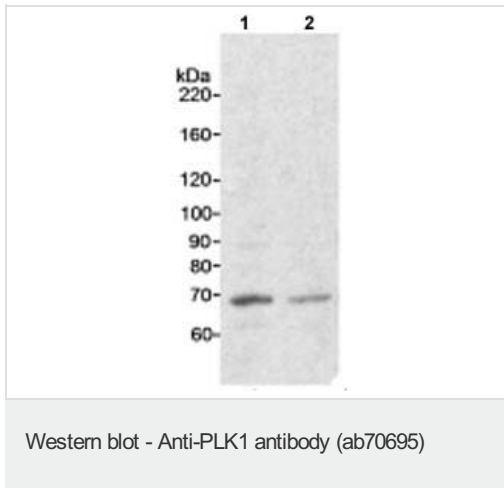
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
WB		1/500 - 1/2500. Detects a band of approximately 68 kDa (predicted molecular weight: 68 kDa).
IP		Use at 2-4 µg/mg of lysate.

靶标

功能	<p>Serine/threonine-protein kinase that performs several important functions throughout M phase of the cell cycle, including the regulation of centrosome maturation and spindle assembly, the removal of cohesins from chromosome arms, the inactivation of APC/C inhibitors, and the regulation of mitotic exit and cytokinesis. 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.</p>
组织特异性	<p>Placenta and colon.</p>
序列相似性	<p>Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. CDC5/Polo subfamily. Contains 2 POLO box domains. Contains 1 protein kinase domain.</p>
发展阶段	<p>Accumulates to a maximum during the G2 and M phases, declines to a nearly undetectable level following mitosis and throughout G1 phase, and then begins to accumulate again during S phase.</p>
翻译后修饰	<p>Catalytic activity is enhanced by phosphorylation of Thr-210. Phosphorylation at Thr-210 is first detected on centrosomes in the G2 phase of the cell cycle, peaks in prometaphase and gradually disappears from centrosomes during anaphase. Autophosphorylation and phosphorylation of Ser-137 may not be significant for the activation of PLK1 during mitosis, but may enhance catalytic activity during recovery after DNA damage checkpoint. Ubiquitinated by the anaphase promoting complex/cyclosome (APC/C) in anaphase and following DNA damage, leading to its degradation by the proteasome. Ubiquitination is mediated via its interaction with FZR1/CDH1. Ubiquitination and subsequent degradation prevents entry into mitosis and is essential to maintain an efficient G2 DNA damage checkpoint.</p>
细胞定位	<p>Nucleus. Chromosome > centromere > kinetochore. Cytoplasm > cytoskeleton > centrosome. During early stages of mitosis, the phosphorylated form is detected on centrosomes and kinetochores. Localizes to the outer kinetochore. Presence of SGOL1 and interaction with the phosphorylated form of BUB1 is required for the kinetochore localization.</p>

图片



Lane 1 : Anti-PLK1 antibody (ab70695) at 1 $\mu\text{g/ml}$

Lane 2 : Anti-PLK1 antibody (ab70695) at 0.5 $\mu\text{g/ml}$

All lanes : HeLa whole cell lysate

Lysates/proteins at 50 μg per lane.

Predicted band size: 68 kDa

Observed band size: 68 kDa

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