

Datasheet for ABIN6988991
anti-PLK4 antibody



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Overview

Quantity:	100 µL
Target:	PLK4
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PLK4 antibody is un-conjugated
Application:	Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human PLK4/STK18
Isotype:	IgG
Cross-Reactivity:	Human
Predicted Reactivity:	Mouse,Rat,Dog,Cow,Sheep,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	PLK4
Alternative Name:	PLK4/STK18 (PLK4 Products)
Target Type:	Phage Protein
Background:	Synonyms: PLK 4, PLK-4, PLK4_HUMAN, Polo like Kinase 4, Polo-like kinase 4, Protein

Target Details

serine/threonine kinase, SAK, Serine/Threonine Kinase 18, Serine/threonine kinase, Serine/threonine protein kinase 18, Serine/threonine protein kinase PLK4, Serine/threonine protein kinase Sak, Serine/threonine-protein kinase 18, Serine/threonine-protein kinase PLK4, Serine/threonine-protein kinase SAK, Snk Akin Kinase, STK 18.

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, CP110, 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. Its central role in centriole replication suggests a possible role in tumorigenesis, centrosome aberrations being frequently observed in tumors. Also involved in trophoblast differentiation by phosphorylating HAND1, leading to disrupt the interaction between HAND1 and MDFIC and activate HAND1. Phosphorylates CDC25C and CHEK2/CHK2.

Gene ID: 10733

UniProt: [O00444](#)

Pathways: [M Phase](#)

Application Details

Application Notes: IHC-P 1:200-400

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

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

Storage: 4 °C,-20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months