Datasheet for ABIN392602

anti-PLK3 antibody (C-Term)

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Overview

Quantity:	400 µL
Target:	PLK3
Binding Specificity:	AA 615-646, C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PLK3 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This PLK3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 615-646 amino acids from the C-terminal region of human PLK3.
Clone:	RB0875
Isotype:	Ig Fraction
Predicted Reactivity:	Rat
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	PLK3

Target Details

Alternative Name:	PLK3 (PLK3 Products)
Background:	CNK, a member of the CDC5/Polo subfamily of Ser/Thr protein kinases, is involved in regulating M phase functions during the cell cycle. It may also be part of the signaling network controlling cellular adhesion. In vitro, is able to phosphorylate CDC25C and casein. This membrane-associated protein binds to the calcium/integrin-binding protein (CIB). This interaction probably occurs via the POLO-box domain. Transcripts are highly detected in placenta, lung, followed by skeletal muscle, heart, pancreas, ovaries and kidney and weakly detected in liver and brain. This protein exhibits a short half-live. In cells of hematopoietic origin, CNK is strongly and exclusively detected in terminally differentiated macrophages. Transcript expression appears to be down-regulated in primary lung tumor. Cytokine and cellular adhesion trigger CNK induction. CNK is thought to be phosphorylated as cells enter mitosis and dephosphorylated as cells exit mitosis The protein contains 2 POLO box domains.
Molecular Weight:	71629
Gene ID:	1263
NCBI Accession:	NP_004064
UniProt:	Q9H4B4
Pathways:	Regulation of long-term Neuronal Synaptic Plasticity

Application Details

Application Notes:	WB: 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium 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,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

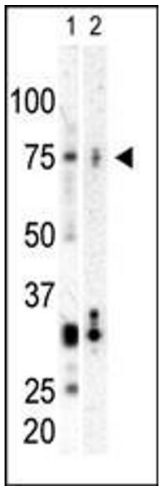
Handling

Expiry Date:	6 months

Publications

Product cited in:	Pan, Hsuchou, Cornelissen-Guillaume, Jayaram, Wang, Tu, Halberg, Wu, Chua, Kastin: " Endothelial leptin receptor mutation provides partial resistance to diet-induced obesity." in: **Journal of applied physiology (Bethesda, Md. : 1985)**, Vol. 112, Issue 8, pp. 1410-8, (2012) (PubMed). Wang, Yang, Du, Guan, Xu, Xu, Su, Miao: "Involvement of Leptin Receptor (LepRb)-STAT3 Signaling Pathway in Brain FTO Downregulation during Energy Restriction." in: **Molecular medicine (Cambridge, Mass.)**, (2011) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of anti-CNK Pab (ABIN392602 and ABIN2842130) in SK-BR3 cell lysate (Lane A) and mouse heart tissue lysate (Lane B). CNK (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.