

Product datasheet for **AP14971PU-N**

PLK3 (C-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1/1,000. Western blotting: 1/100 - 1/500. Flow cytometry.
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the C-terminal region of human PLK3.
Specificity:	This antibody reacts to PLK3.
Formulation:	PBS with 0.09% (W/V) sodium azide State: Purified State: Liquid purified Ig
Concentration:	lot specific
Purification:	Protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	polo like kinase 3
Database Link:	Entrez Gene 1263 Human Q9H4B4

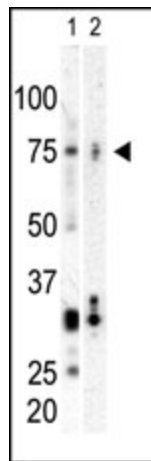
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Background:

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-life. 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.

Synonyms:

Polo-like kinase 3, CNK, FNK, PRK

Product images:


Western blot analysis of anti-CNK Pab 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.