

# Snk (C-18): sc-9577

## BACKGROUND

Plks (polo-like kinases) encode serine/threonine kinases that are closely related to polo and CDC5, genes that are required for passage through mitosis in *Drosophila* and *Saccharomyces*, respectively. Polo-like kinases, which include Plk, Snk (for serum-inducible kinase, also designated Plk2) and Fnk (for FGF-inducible kinase, also designated Plk3 or PRK), play a role in cell proliferation. Plk protein accumulates in the cell during S and G<sub>2</sub> phases of the cell cycle, and both protein content and catalytic activity peak at the onset of mitosis, followed by a rapid reduction after mitosis. Snk and Fnk are immediate-early response genes that are first expressed during G<sub>1</sub> phase. Fnk expression peaks in late S and G<sub>2</sub> phases, and it may play a role in regulating the onset of M phase.

## REFERENCES

1. Sunkel, C.E., et al. 1988. Polo, a mitotic mutant of *Drosophila* displaying abnormal spindle poles. *J. Cell Sci.* 89: 25-38.
2. Kitada, K., et al. 1993. A multicopy suppressor gene of the *Saccharomyces cerevisiae* G<sub>1</sub> cell cycle mutant gene *dbf4* encodes a protein kinase and is identified as CDC5. *Mol. Cell. Biol.* 13: 4445-4457.

## CHROMOSOMAL LOCATION

Genetic locus: PLK2 (human) mapping to 5q11.2; Plk2 (mouse) mapping to 13 D2.2.

## SOURCE

Snk (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Snk of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-9577 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Snk (C-18) is recommended for detection of Snk of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000). Snk (C-18) is also recommended for detection of Snk in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Snk siRNA (h): sc-39152, Snk siRNA (m): sc-39153, Snk shRNA Plasmid (h): sc-39152-SH, Snk shRNA Plasmid (m): sc-39153-SH, Snk shRNA (h) Lentiviral Particles: sc-39152-V and Snk shRNA (m) Lentiviral Particles: sc-39153-V

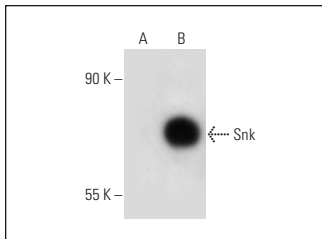
Molecular Weight of Snk: 78 kDa.

Positive Controls: Snk (h2): 293T Lysate: sc-170549, ES-2 cell lysate: sc-24674 or MCF7 whole cell lysate: sc-2206.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



Snk (C-18): sc-9577. Western blot analysis of Snk expression in non-transfected: sc-117752 (A) and human Snk transfected: sc-170549 (B) 293T whole cell lysates.

## SELECT PRODUCT CITATIONS

1. Sui, H., et al. 2010. Decreased expression of spine-associated Rap guanosine triphosphatase-activating protein (SPAR) in glutamate-treated primary hippocampal neurons. *J. Clin. Neurosci.* 17: 1042-1046.

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.


 MONOS  
Satisfaction  
Guaranteed

Try **Snk (E-10): sc-374643** or **Snk (A-6): sc-390827**, our highly recommended monoclonal alternatives to Snk (C-18).