**Snk (E-10): sc-374643**

**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 G2 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 G1 phase. Fnk expression peaks in late S and G2 phases, and it may play a role in regulating the onset of M phase.

**REFERENCES**


**CHROMOSOMAL LOCATION**

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

**SOURCE**

Snk (E-10) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 2-27 at the N-terminus of Snk of human origin.

**PRODUCT**

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

Snk (E-10) is available conjugated to agarose (sc-374643 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-374643 HRP), 200 µg/ml, for WB, HCP (and ELISA; to either phycocerythin (sc-374643 PE), fluorescein (sc-374643 FITC), Alexa Fluor® 488 (sc-374643 AF488), Alexa Fluor® 546 (sc-374643 AF546), Alexa Fluor® 594 (sc-374643 AF594) or Alexa Fluor® 647 (sc-374643 AF647), 200 µg/ml, for WB (RGB), IF, IHC (and FCM; and to either Alexa Fluor® 680 (sc-374643 AF680) or Alexa Fluor® 790 (sc-374643 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-374643 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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**APPLICATIONS**

Snk (E-10) is recommended for detection of Snk of mouse, rat, and human origin by Western Blotting (starting dilution 1:100, 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), immunohistochemistry (including paraaffin-embedded sections) (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 (E-10) is also recommended for detection of Snk in additional species, including bovine and porcine.

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.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:


**DATA**

Snk (E-10): sc-374643. Western blot analysis of Snk expression in T24 (A), ES-2 (B), MCF7 (C) and HISM (D) whole cell lysates.

Snk (E-10): sc-374643. Immunoperoxidase staining of formalin fixed, paraaffin-embedded human tonsil tissue showing cytoplasmic staining of cells in germinal and non-germinal centers.

**STORAGE**

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