

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien T. +43(0)1 489 3961-0 F. +43(0)1 489 3961-7 <u>mail@szabo-scandic.com</u> www.szabo-scandic.com

SANTA CRUZ BIOTECHNOLOGY, INC.

SNARK (m): 293T Lysate: sc-123676



BACKGROUND

The phosphorylation and dephosphorylation of proteins on serine and threonine residues is an essential means of regulating a broad range of cellular functions in eukaryotes, including cell division, homeostasis and apoptosis. A group of proteins that are intimately involved in this process are the serine/ threonine (Ser/Thr) protein kinases. SNARK (Snf1/AMP kinase-related kinase), also known as NUAK2 (NUAK family, Snf1-like kinase, 2), is s 628 amino acid protein that contains one protein kinase domain and belongs to the Ser/Thr protein kinase family. Using magnesium as a cofactor, SNARK catalyzes the ATP-dependent phosphorylation of target proteins and is involved in regulating cell tolerance to stress-induced glucose starvation. Additionally, SNARK is thought to induce cell-cell detachment and may protect cells from Fap-1mediated apoptosis, possibly playing a role in the motility and invasiveness of tumor cells.

REFERENCES

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- 7. Kusakai, G., et al. 2004. Strong association of ARK5 with tumor invasion and metastasis. J. Exp. Clin. Cancer Res. 23: 263-268.
- Yamamoto, H., et al. 2008. Identification of a novel substrate for TNFαinduced kinase NUAK2. Biochem. Biophys. Res. Commun. 365: 541-547.

CHROMOSOMAL LOCATION

Genetic locus: Nuak2 (mouse) mapping to 1 E4.

PRODUCT

SNARK (m): 293T Lysate represents a lysate of mouse SNARK transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

SNARK (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive P-N antibodies. Recommended use: 10-20 μI per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

SNARK (S-15): sc-162243 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse SNARK expression in SNARK transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgGκ BP-HRP: sc-516102 or m-lgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA

	А	В	
90 K –		_	< SNARK
55 K –			, orvent
43 K –			
34 K –			
23 K –			

SNARK (C-12): sc-374348. Western blot analysis of SNARK expression in non-transfected: sc-117752 (A) and mouse SNARK transfected: sc-123676 (B) 293T whole cell lysates.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.