



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

NCK2 (m): 293T Lysate: sc-121954

BACKGROUND

The NCK family of SH2/SH3 adaptor proteins consists of two members, NCK1 (NCK α) and NCK2 (NCK β), which couple tyrosine kinase signaling, including the EGF and PDGF receptor-pathways, to downstream signaling proteins. Specifically, overexpression of NCK1 in NIH/3T3 cells decreases DNA synthesis stimulated by EGF. Furthermore, the SH2 domain of NCK2 inhibits EGF- and PDGF-induced DNA synthesis. The SH3 domain of NCK binds a proline-rich domain on PAK, a known Actin cytoskeleton regulator. The NCK protein thus mediates the interaction between PAK and Rac. The NCK2 protein binds human PDGFR- β (Tyr 1009); overexpression of NCK2 inhibits PDGF-induced membrane ruffling and lamellipod formation. Various growth factor receptors, cell surface antigens and adhesion molecules phosphorylate mammalian NCK1 and NCK2. The human NCK1 and NCK2 genes map to chromosomes 3q21 and 2q12, respectively.

REFERENCES

- Park, D. and Rhee, S.G. 1992. Phosphorylation of NCK in response to a variety of receptors, phorbol myristate acetate, and cyclic AMP. *Mol. Cell Biol.* 12: 5816-5823.
- Huebner, K., Kastury, K., Druck, T., Salcini, A.E., Lanfrancone, L., Pelicci, G., Lowenstein, E., Li, W., Park, S.H., Cannizzaro, L., et al. 1994. Chromosome locations of genes encoding human signal transduction adapter proteins, NCK (NCK), Shc (SHC1), and Grb2 (GRB2). *Genomics* 22: 281-287.
- Chen, M., She, H., Davis, E.M., Spicer, C.M., Kim, L., Ren, R., Le Beau, M.M. and Li, W. 1998. Identification of NCK family genes, chromosomal localization, expression, and signaling specificity. *J. Biol. Chem.* 273: 25171-25178.
- Chen, M., She, H., Kim, A., Woodley, D.T. and Li, W. 2000. NCK β adapter regulates Actin polymerization in NIH/3T3 fibroblasts in response to platelet-derived growth factor BB. *Mol. Cell Biol.* 20: 7867-7880.
- Buday, L., Wunderlich, L. and Tamas, P. 2002. The NCK family of adapter proteins. Regulators of Actin cytoskeleton. *Cell. Signal.* 14: 723-731.
- Kiosses, W.B., Hood, J., Yang, S., Gerritsen, M.E., Cheresh, D.A., Alderson, N. and Schwartz, M.A. 2002. A dominant-negative p65 PAK peptide inhibits angiogenesis. *Circ. Res.* 90: 697-702.
- Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 604930. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: Nck2 (mouse) mapping to 1 B.

PRODUCT

NCK2 (m): 293T Lysate represents a lysate of mouse NCK2 transfected 293T cells and is provided as 100 μ g protein in 200 μ l 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

NCK2 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive NCK2 antibodies. Recommended use: 10-20 μ l per lane.

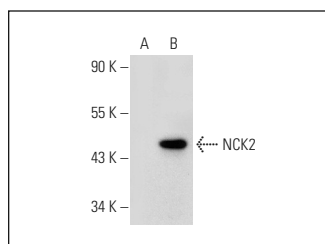
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

NCK2 (8.8): sc-20020 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse NCK2 expression in NCK2 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-IgG κ BP-HRP: sc-516102 or m-IgG κ 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



NCK2 (8.8): sc-20020. Western blot analysis of NCK2 expression in non-transfected: sc-117752 (A) and mouse NCK2 transfected: sc-121954 (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.