



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) 

Sur-8 (m2): 293T Lysate: sc-123846

BACKGROUND

Sur-8, also known as SHOC2 (Soc-2 suppressor of clear homolog (*C. elegans*)) or SOC-2, is a 582 amino acid protein and a member of the SHOC2 family that translocates from cytoplasm to nucleus upon growth factor stimulation. Existing as 2 alternatively spliced isoforms, Sur-8 contains 20 leucine-rich repeats (LRR) and positively modulates Ras-MAPK signal flow. Aberrantly acquired N-myristoylation of SHOC2 is the cause of Noonan-like syndrome with loose anagen hair, a disorder characterized by slow-growing, easily pluckable, thin and sparse hair. Children with Noonan-like syndrome with loose anagen hair exhibit low-set and posteriorly rotated ears, high forehead, palpebral ptosis, hypertelorism, macrocephaly, pectus anomalie along with short and webbed neck. The gene encoding Sur-8 maps to human chromosome 10q25.2 and murine chromosome 19 D2.

REFERENCES

1. Sieburth, D.S., Sun, Q. and Han, M. 1998. Sur-8, a conserved Ras-binding protein with leucine-rich repeats, positively regulates Ras-mediated signaling in *C. elegans*. *Cell* 94: 119-130.
2. Selfors, L.M., Schutzman, J.L., Borland, C.Z. and Stern, M.J. 1998. Soc-2 encodes a leucine-rich repeat protein implicated in fibroblast growth factor receptor signaling. *Proc. Natl. Acad. Sci. USA* 95: 6903-6908.
3. Li, W., Han, M. and Guan, K.L. 2000. The leucine-rich repeat protein Sur-8 enhances MAP kinase activation and forms a complex with Ras and Raf. *Genes Dev.* 14: 895-900.
4. Dai, P., Xiong, W.C. and Mei, L. 2006. ERBIN inhibits RAF activation by disrupting the Sur-8-Ras-Raf complex. *J. Biol. Chem.* 281: 927-933.
5. Rodriguez-Viciana, P., Oses-Prieto, J., Burlingame, A., Fried, M. and McCormick, F. 2006. A phosphatase holoenzyme comprised of Shoc2/Sur-8 and the catalytic subunit of PP1 functions as an M-Ras effector to modulate Raf activity. *Mol. Cell* 22: 217-230.
6. Cordeddu, V., Di Schiavi, E., Pennacchio, L.A., Ma'ayan, A., Sarkozy, A., Fodale, V., Cecchetti, S., Cardinale, A., Martin, J., Schackwitz, W., Lipzen, A., Zampino, G., Mazzanti, L., Digilio, M.C., Martinelli, S., Flex, E., Lepri, F., Bartholdi, D., Kutsche, K., Ferrero, G.B., Anichini, C., Selicorni, A., et al. 2009. Mutation of SHOC2 promotes aberrant protein N-myristoylation and causes Noonan-like syndrome with loose anagen hair. *Nat. Genet.* 41: 1022-1026.

CHROMOSOMAL LOCATION

Genetic locus: Shoc2 (mouse) mapping to 19 D2.

PRODUCT

Sur-8 (m2): 293T Lysate represents a lysate of mouse Sur-8 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

Sur-8 (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Sur-8 antibodies. Recommended use: 10-20 µl per lane.

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

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.