



# 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](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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

# TWIK-2 (h2): 293T Lysate: sc-176488

## BACKGROUND

K<sup>+</sup> channels are divided into three subclasses, reflecting the number of transmembrane segments (TMS), which are designated 6TMS, 4TMS, and 2TMS. Members of the 4TMS class contain two distinct pore regions, and include TASK, TREK, TRAAK, and TWIK. TWIK-1 mRNA is expressed abundantly in brain and at lower levels in lung, kidney, and skeletal muscle. TWIK-2 shares low sequence homology with other mammalian family group members, and only 34% homology with TWIK-1. Human TWIK-2 is expressed in pancreas, placenta and heart, while mouse TWIK-2 is expressed in liver. TWIK-2 is inhibited by intracellular, but not extracellular, acidification.

## REFERENCES

1. Lesage, F., Guillemare, E., Fink, M., Duprat, F., Lazdunski, M., Romey, G. and Barhanin, J. 1996. TWIK-1, a ubiquitous human weakly inward rectifying K<sup>+</sup> channel with a novel structure. *EMBO J.* 15: 1004-1011.
2. Fink, M., Duprat, F., Lesage, F., Reyes, R., Romey, G., Heurteaux, C. and Lazdunski, M. 1996. Cloning, functional expression and brain localization of a novel unconventional outward rectifier K<sup>+</sup> channel. *EMBO J.* 15: 6854-6862.
3. Duprat, F., Lesage, F., Fink, M., Reyes, R., Heurteaux, C. and Lazdunski, M. 1997. TASK, a human background K<sup>+</sup> channel to sense external pH variations near physiological pH. *EMBO J.* 16: 5464-5471.
4. Lesage, F., Lauritzen, I., Duprat, F., Reyes, R., Fink, M., Heurteaux, C. and Lazdunski, M. 1997. The structure, function and distribution of the mouse TWIK-1 K<sup>+</sup> channel. *FEBS Lett.* 402: 28-32.
5. Maingret, F., Fosset, M., Lesage, F., Lazdunski, M. and Honoré, E. 1999. TRAAK is a mammalian neuronal mechano-gated K<sup>+</sup> channel. *J. Biol. Chem.* 274: 1381-1387.
6. Pountney, D.J., Gulkarov, I., Vega-Saenz de Miera, E., Holmes, D., Saganich, M., Rudy, B., Artman, M. and Coetzee, W.A. 1999. Identification and cloning of TWIK-originated similarity sequence (TOSS): a novel human 2-pore K<sup>+</sup> channel principal subunit. *FEBS Lett.* 450: 191-196.
7. Chavez, R.A., Gray, A.T., Zhao, B.B., Kindler, C.H., Mazurek, M.J., Mehta, Y., Forsayeth, J.R. and Yost, C.S. 1999. TWIK-2, a new weak inward rectifying member of the tandem pore domain potassium channel family. *J. Biol. Chem.* 274: 7887-7892.

## CHROMOSOMAL LOCATION

Genetic locus: KCNK6 (human) mapping to 19q13.2.

## PRODUCT

TWIK-2 (h2): 293T Lysate represents a lysate of human TWIK-2 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.

## RESEARCH USE

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

## APPLICATIONS

TWIK-2 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive TWIK-2 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.

## PROTOCOLS

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