



# 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) 

# Wnt-3a (m): 293 Lysate: sc-179755

## BACKGROUND

The Wnt gene family encodes secreted signaling molecules that bind to frizzled receptors and influence oncogenesis and developmental processes, including regulation of cell fate and patterning during embryogenesis. The Wnt family has two functional classes according to their biological activities; Wnts that signal through a Wnt-1/wingless pathway by stabilizing cytoplasmic  $\beta$ -catenin, and Wnts that stimulate intracellular  $Ca^{2+}$  release and activate two kinases, CamKII and PKC, in a G protein-dependent manner. Wnt-3a is an intercellular signaling molecule that mediates cytoskeletal reorganization and regulates hippocampal development. Human Wnt-3a is 96% homologous to mouse Wnt-3a protein and 84% homologous to human Wnt-3 protein. The human Wnt-3a gene clusters with the Wnt-14 gene at chromosome 1q42.

## REFERENCES

- Shibamoto, S., Higano, K., Takada, R., Ito, F., Takeichi, M. and Takada, S. 1998. Cytoskeletal reorganization by soluble Wnt-3a protein signalling. *Genes Cells* 3: 659-670.
- Kuhl, M., Sheldahl, L.C., Park, M., Miller, J.R. and Moon, R.T. 2000. The Wnt/ $Ca^{2+}$  pathway: a new vertebrate Wnt signaling pathway takes shape. *Trends Genet.* 16: 279-283.
- Lee, S.M., Tole, S., Grove, E. and McMahon, A.P. 2000. A local Wnt-3a signal is required for development of the mammalian hippocampus. *Development* 127: 457-467.
- Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 606359. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
- LocusLink Report (LocusID: 89780). <http://www.ncbi.nlm.nih.gov/LocusLink/>

## CHROMOSOMAL LOCATION

Genetic locus: Wnt3a (mouse) mapping to 11 B1.3.

## PRODUCT

Wnt-3a (m): 293 Lysate represents a lysate of mouse Wnt-3a transfected 293 cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## APPLICATIONS

Wnt-3a (m): 293 Lysate is suitable as a Western Blotting positive control for mouse reactive Wnt-3a antibodies. Recommended use: 10-20  $\mu$ l per lane.

Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

Wnt-3a (YY-7): sc-80457 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse Wnt-3a expression in Wnt-3a transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

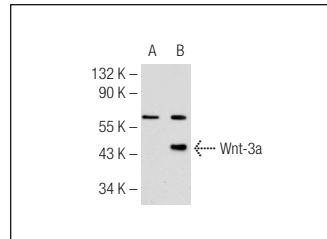
## STORAGE

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.

## DATA



Wnt-3a (YY-7): sc-80457. Western blot analysis of Wnt-3a expression in non-transfected: sc-110760 (A) and mouse Wnt-3a transfected: sc-179755 (B) 293 whole cell lysates.

## PROTOCOLS

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