



# SZABO SCANDIC

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Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# NOR-1 (m): 293 Lysate: sc-179018

## BACKGROUND

Nur77 (also designated NGFI-B), Nur1 (nur-related factor 1), and NOR-1 (neuron-derived orphan receptor 1) constitute the NGFI-B subfamily within the nuclear receptor superfamily. Ligands for these protein have not been identified, and, therefore, they are designated "orphan nuclear receptors". Genes of the NGFI-B subfamily are classified as immediate-early genes, which are induced rapidly, but transiently, in response to a variety of stimuli. They have been implicated in cell proliferation, differentiation, and apoptosis. The human NOR-1 gene maps to chromosome 9q, and encodes a protein which is expressed in heart, skeletal muscle, thymus, and spleen as well as in brain, where it is developmentally regulated. Therefore, NOR-1 may be involved in regulating neural differentiation. The NOR-1 gene also undergoes chromosomal translocation with the EWS gene to produce a protein thought to affect pre-mRNA splicing.

## REFERENCES

- Ohkura, N., Ito, M., Tsukada, T., Sasaki, K., Yamaguchi, K. and Miki, K. 1996. Structure, mapping and expression of a human NOR-1 gene, the third member of the Nur77/NGFI-B family. *Biochim. Biophys. Acta* 1308: 205-214.
- Ohkura, N., Hijikuro, M. and Miki, K. 1996. Antisense oligonucleotide to NOR-1, a novel orphan nuclear receptor, induces migration and neurite extension of cultured forebrain cells. *Brain Res. Mol. Brain Res.* 35: 309-313.
- Maruyama, K., Tsukada, T., Bandoh, S., Sasaki, K., Ohkura, N. and Yamaguchi, K. 1997. Expression of the putative transcription factor NOR-1 in the nervous, the endocrine and the immune systems and the developing brain of the rat. *Neuroendocrinology* 65: 2-8.
- Maruyama, K., Tsukada, T., Ohkura, N., Bandoh, S., Hosono, T. and Yamaguchi, K. 1998. The NGFI-B subfamily of the nuclear receptor superfamily (review). *Int. J. Oncol.* 12: 1237-1243.
- Ohkura, N., Ito, M., Tsukada, T., Sasaki, K., Yamaguchi, K. and Miki, K. 1998. Alternative splicing generates isoforms of human neuron-derived orphan receptor-1 (NOR-1) mRNA. *Gene* 211: 79-85.
- Ohkura, N., Yaguchi, H., Tsukada, T. and Yamaguchi, K. 2002. The EWS/NOR1 fusion gene product gains a novel activity affecting pre-mRNA splicing. *J. Biol. Chem.* 277: 535-543.
- Wansa, K.D., Harris, J.M. and Muscat, G.E. 2002. The AF-1 domain of Nur77/NR4A1 mediates *trans*-activation, cell specificity and coactivator recruitment. *J. Biol. Chem.* 277: 33001-33011.

## 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.

## PROTOCOLS

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

## CHROMOSOMAL LOCATION

Genetic locus: Nr4a3 (mouse) mapping to 4 B1.

## PRODUCT

NOR-1 (m): 293 Lysate represents a lysate of mouse NOR-1 transfected 293 cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## APPLICATIONS

NOR-1 (m): 293 Lysate is suitable as a Western Blotting positive control for mouse reactive NOR-1 antibodies. Recommended use: 10-20 µl per lane.

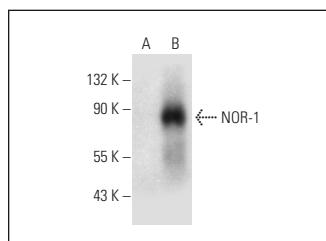
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

NOR-1 (H-7): sc-393902 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse NOR-1 expression in NOR-1 transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

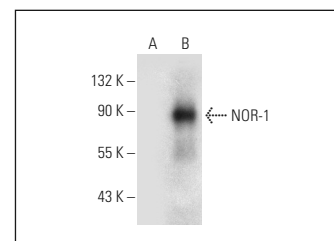
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:  
 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ 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



NOR-1 (H-7): sc-393902. Western blot analysis of NOR-1 expression in non-transfected: sc-110760 (A) and mouse NOR-1 transfected: sc-179018 (B) 293 whole cell lysates.



NOR-1 (F-10): sc-393903. Western blot analysis of NOR-1 expression in non-transfected: sc-110760 (A) and mouse NOR-1 transfected: sc-179018 (B) 293 whole cell lysates.

## RESEARCH USE

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