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- 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) 

Ndfip1 (h): 293T Lysate: sc-370558

BACKGROUND

Nedd4 family interacting protein-1 (NDFIP1), also referred to as N4WBP5, is a member of a family of highly conserved proteins. It has three transmembrane domains in its carboxy terminal and two PY motifs in its amino terminal. NDFIP1 is a 221 amino acid, Golgi-associated protein that may play a role in Golgi structure and function. NDFIP1 binds the WW domains of a number of Nedd4 family members called HECT-type E3 ubiquitin ligases. NDFIP1 is strongly expressed in surviving neurons around a site of injury. This suggests that ubiquitination may be a possible survival strategy and NDFIP1 may act as a neuroprotective protein. NDFIP1 may also have an effect on the function of Itch, another E3 ubiquitin ligase. Expression of NDFIP1 and its association with Itch may be promoted by T cell activation. Mice lacking NDFIP1 exhibit inactivation of Itch and accumulation of JunB causing them to die prematurely with severe skin and lung inflammation.

REFERENCES

- Harvey, K.F., et al. 2002. N4WBP5, a potential target for ubiquitination by the Nedd4 family of proteins, is a novel Golgi-associated protein. *J. Biol. Chem.* 277: 9307-9317.
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- Sang, Q., et al. 2006. Nedd4-WW domain-binding protein 5 (Ndfip1) is associated with neuronal survival after acute cortical brain injury. *J. Neurosci.* 26: 7234-7244.
- Shearwin-Whyatt, L., et al. 2006. Regulation of functional diversity within the Nedd4 family by accessory and adaptor proteins. *Bioessays* 28: 617-628.

CHROMOSOMAL LOCATION

Genetic locus: NDFIP1 (human) mapping to 5q31.3.

PRODUCT

Ndfip1 (h): 293T Lysate represents a lysate of human NDFIP1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

Ndfip1 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive NDFIP1 antibodies. Recommended use: 10-20 µl per lane.

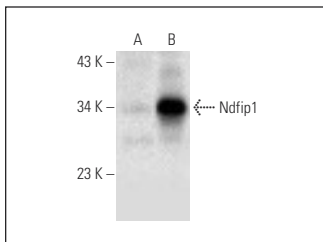
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Ndfip1 (D-4): sc-398469 is recommended as a positive control antibody for Western Blot analysis of enhanced human NDFIP1 expression in NDFIP1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

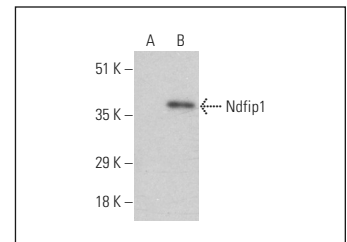
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
 1) Western Blotting: use m-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



Ndfip1 (D-4): sc-398469. Western blot analysis of Ndfip1 expression in non-transfected: sc-117752 (A) and human Ndfip1 transfected: sc-370558 (B) 293T whole cell lysates.



Ndfip1 (H-6): sc-515417. Western blot analysis of Ndfip1 expression in non-transfected: sc-117752 (A) and human Ndfip1 transfected: sc-370558 (B) whole cell lysates.

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 for detailed protocols and support products.