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# Ndfip2 (m): 293T Lysate: sc-121960

## BACKGROUND

Ndfip2 (NEDD4 family interacting protein 2), also known as N4WBP5A, is a 336 amino acid protein that localizes to the membrane of both the endosome and the Golgi apparatus. Expressed in kidney, heart, brain, lung, liver, placenta and skeletal muscle, Ndfip2 interacts with NEDD4 and NEDD4-L and is thought to be involved in endocytosis and in the NF $\kappa$ B and MAPK signaling pathways. Additionally, Ndfip2 may function as an adaptor protein that may recruit NEDD4 ubiquitin-protein ligases to protein trafficking machinery in the Golgi. Ndfip2 is activated by T cells and may be ubiquitinated by NEDD4 or NEDD4-L, an event that does not affect Ndfip2 function. The gene encoding Ndfip2 maps to human chromosome 13, which houses over 400 genes, such as BRCA2 and RB1, and comprises nearly 4% of the human genome.

## REFERENCES

1. Konstas, A.A., et al. 2002. Regulation of the epithelial sodium channel by N4WBP5A, a novel NEDD4/NEDD4-2-interacting protein. *J. Biol. Chem.* 277: 29406-29416.
2. Cristillo, A.D., et al. 2003. Cloning and characterization of N4WBP5A, an inducible, cyclosporine-sensitive, NEDD4-binding protein in human T lymphocytes. *J. Biol. Chem.* 278: 34587-34597.
3. Matsuda, A., et al. 2003. Large-scale identification and characterization of human genes that activate NF $\kappa$ B and MAPK signaling pathways. *Oncogene* 22: 3307-3318.
4. Palmada, M., et al. 2004. Regulation of intestinal phosphate cotransporter NaPi IIb by ubiquitin ligase NEDD4-2 and by serum- and glucocorticoid-dependent kinase 1. *Am. J. Physiol. Gastrointest. Liver Physiol.* 287: G143-G150.
5. Shearwin-Whyatt, L.M., et al. 2004. N4WBP5A (Ndfip2), a NEDD4-interacting protein, localizes to multivesicular bodies and the Golgi, and has a potential role in protein trafficking. *J. Cell Sci.* 117: 3679-3689.
6. Online Mendelian Inheritance in Man, OMIM™. 2006. Johns Hopkins University, Baltimore, MD. MIM Number: 610041. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
7. Foot, N.J., et al. 2008. Regulation of the divalent metal ion transporter DMT1 and iron homeostasis by a ubiquitin-dependent mechanism involving Ndfips and WWP2. *Blood* 112: 4268-4275.

## CHROMOSOMAL LOCATION

Genetic locus: Ndfip2 (mouse) mapping to 14 E2.3.

## PRODUCT

Ndfip2 (m): 293T Lysate represents a lysate of mouse Ndfip2 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l 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

Ndfip2 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Ndfip2 antibodies. Recommended use: 10-20  $\mu$ l per lane.

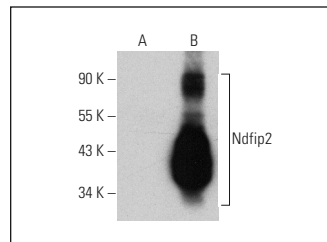
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Ndfip2 (C-6): sc-515327 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse Ndfip2 expression in Ndfip2 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-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  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



Ndfip2 (C-6): sc-515327. Western blot analysis of Ndfip2 expression in non-transfected: sc-117752 (A) and mouse Ndfip2 transfected: sc-121960 (B) 293T whole cell lysates.

## RESEARCH USE

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

## PROTOCOLS

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