

# Ndfip1 (T-17): sc-69517

## 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.

## CHROMOSOMAL LOCATION

Genetic locus: NDFIP1 (human) mapping to 5q31.3; Ndfip1 (mouse) mapping to 18 B3.

## SOURCE

Ndfip1 (T-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a cytoplasmic domain of Ndfip1 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-69517 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## APPLICATIONS

Ndfip1 (T-17) is recommended for detection of Ndfip1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Ndfip1 (T-17) is also recommended for detection of Ndfip1 in additional species, including equine, canine, porcine and avian.

Suitable for use as control antibody for Ndfip1 siRNA (h): sc-75886, Ndfip1 siRNA (m): sc-75887, Ndfip1 shRNA Plasmid (h): sc-75886-SH, Ndfip1 shRNA Plasmid (m): sc-75887-SH, Ndfip1 shRNA (h) Lentiviral Particles: sc-75886-V and Ndfip1 shRNA (m) Lentiviral Particles: sc-75887-V.

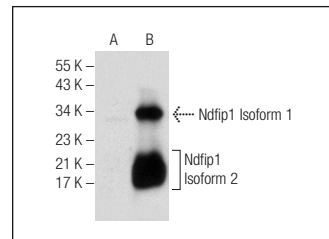
Molecular Weight of Ndfip1: 26 kDa.

Positive Controls: Ndfip1 (h): 293T Lysate: sc-370558 or Ndfip1 (m): 293T Lysate: sc-121959.

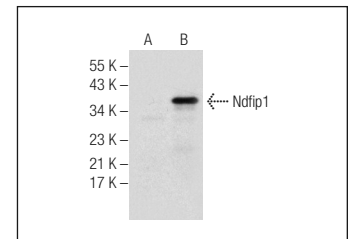
## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



Ndfip1 (T-17): sc-69517. Western blot analysis of Ndfip1 expression in non-transfected: sc-117752 (A) and mouse Ndfip1 transfected: sc-121959 (B) 293T whole cell lysates.



Ndfip1 (T-17): sc-69517. Western blot analysis of Ndfip1 expression in non-transfected: sc-117752 (A) and human Ndfip1 transfected: sc-370558 (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) or our catalog for detailed protocols and support products.



Try **Ndfip1 (D-4): sc-398469** or **Ndfip1 (H-6): sc-515417**, our highly recommended monoclonal alternatives to Ndfip1 (T-17).