

Ndfip2 (P-14): sc-84526

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 κ 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.

CHROMOSOMAL LOCATION

Genetic locus: NDFIP2 (human) mapping to 13q31.1; Ndfip2 (mouse) mapping to 14 E2.3.

SOURCE

Ndfip2 (P-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of Ndfip2 of human origin.

PRODUCT

Each vial contains 100 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-84526 P, (100 μ g 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

Ndfip2 (P-14) is recommended for detection of Ndfip2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

Ndfip2 (P-14) is also recommended for detection of Ndfip2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Ndfip2 siRNA (h): sc-75888, Ndfip2 siRNA (m): sc-149862, Ndfip2 shRNA Plasmid (h): sc-75888-SH, Ndfip2 shRNA Plasmid (m): sc-149862-SH, Ndfip2 shRNA (h) Lentiviral Particles: sc-75888-V and Ndfip2 shRNA (m) Lentiviral Particles: sc-149862-V.

Molecular Weight (predicted) of Ndfip2: 32 kDa.

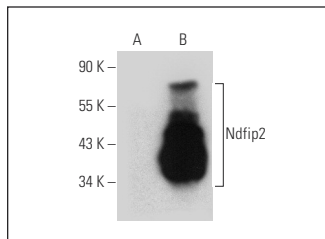
Molecular Weight (observed) of Ndfip2: 32-50 kDa.

Positive Controls: Ndfip2 (m): 293T Lysate: sc-121960.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Ndfip2 (P-14): sc-84526. 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 or our catalog for detailed protocols and support products.



Try **Ndfip2 (E-4): sc-376259** or **Ndfip2 (C-6): sc-515327**, our highly recommended monoclonal alternatives to Ndfip2 (P-14).