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Diagnostik & molekulare Diagnostik



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- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# NEDD4 (F-11): sc-518160

## BACKGROUND

NEDD4 family interacting protein-1 (NDFIP1), also known as N4WBP5, is a member of a family of highly conserved proteins. NEDD4 is a 221 amino acid, Golgi-associated protein which contains three transmembrane domains in its carboxy-terminus and two PY motifs in its amino-terminus. NEDD4 may play a role in Golgi structure and function. It binds the WW domains of a number of NEDD4 family members called HECT-type E3 ubiquitin ligases. NEDD4 is strongly expressed in surviving neurons around an injury site, which suggests that ubiquitination may be a possible survival strategy and that NEDD4 may act as a neuroprotective protein. It may also have an effect on the function of Itch, another E3 ubiquitin ligase. Expression of NEDD4 and its association with Itch may be promoted by T cell activation. Mice lacking NEDD4 exhibit inactivation of Itch and accumulation of Jun B, causing severe skin and lung inflammation and premature death.

## REFERENCES

1. 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.
2. Donnison, M., et al. 2004. Isolation of genes associated with developmentally competent bovine oocytes and quantitation of their levels during development. *Biol. Reprod.* 71: 1813-1821.
3. 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.
4. Bennett, C.L., et al. 2005. Genetic heterogeneity for autosomal recessive pyridoxine-dependent seizures. *Neurogenetics* 6: 143-149.
5. Oliver, P.M., et al. 2006. Ndfip1 protein promotes the function of itch ubiquitin ligase to prevent T cell activation and T helper 2 cell-mediated inflammation. *Immunity* 25: 929-940.

## CHROMOSOMAL LOCATION

Genetic locus: NEDD4 (human) mapping to 15q21.3; Nedd4 (mouse) mapping to 9 D.

## SOURCE

NEDD4 (F-11) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 1196-1218 of NEDD4 of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

NEDD4 (F-11) is available conjugated to agarose (sc-518160 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-518160 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-518160 PE), fluorescein (sc-518160 FITC), Alexa Fluor® 488 (sc-518160 AF488), Alexa Fluor® 546 (sc-518160 AF546), Alexa Fluor® 594 (sc-518160 AF594) or Alexa Fluor® 647 (sc-518160 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-518160 AF680) or Alexa Fluor® 790 (sc-518160 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

## APPLICATIONS

NEDD4 (F-11) is recommended for detection of NEDD4 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for NEDD4 siRNA (h): sc-41079, NEDD4 siRNA (m): sc-41080, NEDD4 siRNA (r): sc-270215, NEDD4 shRNA Plasmid (h): sc-41079-SH, NEDD4 shRNA Plasmid (m): sc-41080-SH, NEDD4 shRNA Plasmid (r): sc-270215-SH, NEDD4 shRNA (h) Lentiviral Particles: sc-41079-V, NEDD4 shRNA (m) Lentiviral Particles: sc-41080-V and NEDD4 shRNA (r) Lentiviral Particles: sc-270215-V.

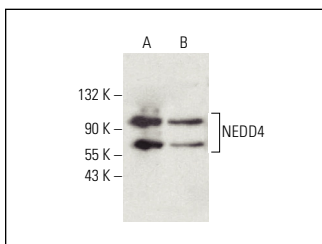
Molecular Weight of NEDD4: 116-120 kDa.

Positive Controls: KNRK whole cell lysate: sc-2214 or C6 whole cell lysate: sc-364373.

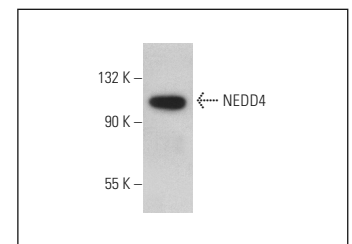
## RECOMMENDED SUPPORT REAGENTS

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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

## DATA



NEDD4 (F-11): sc-518160. Western blot analysis of NEDD4 expression in KNRK (A) and C6 (B) whole cell lysates. Detection reagent used: m-IgGκ BP-HRP: sc-516102.



NEDD4 (F-11): sc-518160. Western blot analysis of NEDD4 expression in KNRK whole cell lysate. Detection reagent used: m-IgGκ BP-HRP: sc-516102.

## STORAGE

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

## RESEARCH USE

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

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