

## Ndn (C-12): sc-34492

### BACKGROUND

Prader-Willi syndrome (PWS) is a neurogenetic disorder resulting from the loss of paternal expression of gene(s) localized in the 15q11-q12 region. Clinical manifestations of this disease include feeding problems in infancy, temper outbursts, perseveration, obsessive-compulsive symptoms and sleep disturbances. Necdin (Ndn) protein is generated from an intronless gene that is located in the Prader-Willi syndrome deletion region. Studies in mouse suggest that the protein encoded by this gene may suppress growth in post-mitotic neurons. Ndn expression in brain is restricted to post-mitotic neurons and parental alleles display a differential methylation profile in the coding region. Reduced expression of Ndn is responsible for at least a subset of the clinical manifestations of PWS, including skin picking and improved spatial memory.

### CHROMOSOMAL LOCATION

Genetic locus: NDN (human) mapping to 15q11.2; Ndn (mouse) mapping to 7 C.

### SOURCE

Ndn (C-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Ndn 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-34492 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### RESEARCH USE

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

### APPLICATIONS

Ndn (C-12) is recommended for detection of Ndn 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Ndn (C-12) is also recommended for detection of Ndn in additional species, including bovine.

Suitable for use as control antibody for Ndn siRNA (h): sc-37318, Ndn siRNA (m): sc-37319, Ndn shRNA Plasmid (h): sc-37318-SH, Ndn shRNA Plasmid (m): sc-37319-SH, Ndn shRNA (h) Lentiviral Particles: sc-37318-V and Ndn shRNA (m) Lentiviral Particles: sc-37319-V.

Molecular Weight (predicted) of Ndn: 36 kDa.

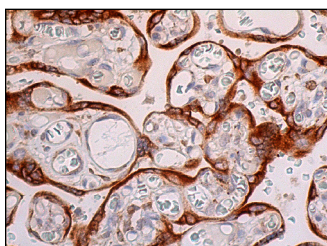
Molecular Weight (observed) of Ndn: 50 kDa.

Positive Controls: mouse embryo extract: sc-364239 or HL-60 whole cell lysate: sc-2209.

### 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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

### DATA



Ndn (C-12): sc-34492. Immunoperoxidase staining of formalin fixed, paraffin-embedded human placenta tissue showing cytoplasmic staining of trophoblastic cells.

### STORAGE

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

### PROTOCOLS

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

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Try **Ndn (36-V): sc-101224**, our highly recommended monoclonal alternative to Ndn (C-12).