

**NDN Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP14876a****Specification**

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**NDN Antibody (N-term) - Product Information**

Application	FC, WB,E
Primary Accession	<a href="#">Q99608</a>
Other Accession	<a href="#">NP_002478.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	36086
Antigen Region	43-71

**NDN Antibody (N-term) - Additional Information****Gene ID** 4692**Other Names**

Necdin, NDN

**Target/Specificity**

This NDN antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 43-71 amino acids from the N-terminal region of human NDN.

**Dilution**

FC~~1:10~50

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

NDN Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**NDN Antibody (N-term) - Protein Information****Name** NDN

**Function** Growth suppressor that facilitates the entry of the cell into cell cycle arrest. Functionally similar to the retinoblastoma protein it binds to and represses the activity of cell-cycle-promoting proteins such as SV40 large T antigen, adenovirus E1A, and the transcription factor E2F. Necdin also interacts with p53 and works in an additive manner to inhibit cell growth. Also functions as a transcription factor and directly binds to specific guanosine-rich DNA sequences (By similarity).

#### Cellular Location

Perikaryon. Nucleus. Note=Neural perikarya, translocates to the nucleus of postmitotic neurons and interacts with the nuclear matrix

#### Tissue Location

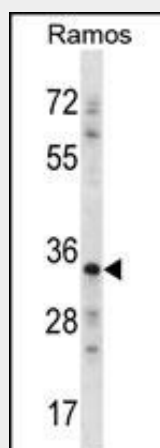
Almost ubiquitous. Detected in fetal brain, lung, liver and kidney; in adult heart, brain, placenta, lung, liver, skeletal muscle, kidney, pancreas, spleen, thymus, prostate, testis, ovary, small intestine and colon. Not detected in peripheral blood leukocytes. In brain, restricted to post-mitotic neurons

### NDN Antibody (N-term) - Protocols

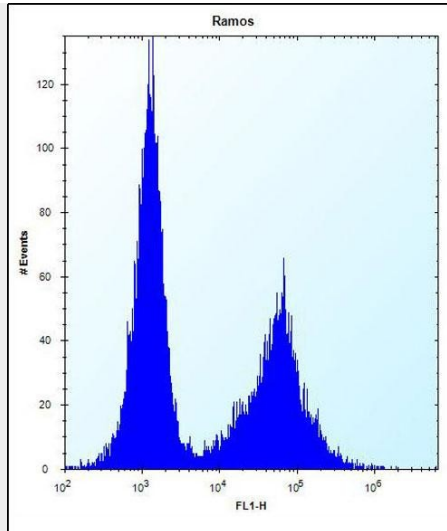
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### NDN Antibody (N-term) - Images



NDN Antibody (N-term) (Cat. #AP14876a) western blot analysis in Ramos cell line lysates (35ug/lane). This demonstrates the NDN antibody detected the NDN protein (arrow).



NDN Antibody (N-term) (Cat. #AP14876a) flow cytometric analysis of Ramos cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.

#### **NDN Antibody (N-term) - Background**

This intronless gene is located in the Prader-Willi syndrome deletion region. It is an imprinted gene and is expressed exclusively from the paternal allele. Studies in mouse suggest that the protein encoded by this gene may suppress growth in postmitotic neurons.

#### **NDN Antibody (N-term) - References**

Chapman, E.J., et al. Mol. Carcinog. 48(11):975-981(2009)  
Yoshikawa, K. No To Hattatsu 41(3):214-218(2009)  
Liu, X., et al. Mol. Cell. Neurosci. 41(1):51-61(2009)  
de Krom, M., et al. Biol. Psychiatry 65(7):625-630(2009)  
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