

NDN Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP14876a

Specification

NDN Antibody (N-term) - Product Information

WB, FC, E Application **Primary Accession** 099608 NP 002478.1 Other Accession 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

WB~~1:1000 FC~~1:10~50

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



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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

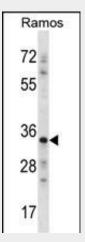
Almost ubiquitous. Detected in fetal brain, lung, liver and kidney; in adult heart, brain, placenta, lung, liver, skeletal muscle, kidney, pancreas, spleen, thymus, prostate, testis, ovary, small intestine and colon. Not detected in peripheral blood leukocytes. In brain, restricted to post-mitotic neurons

NDN Antibody (N-term) - Protocols

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

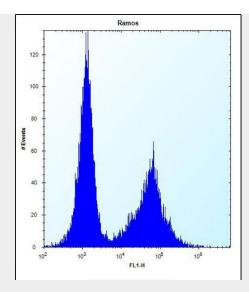
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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) Lau, J.C., et al. Nucleic Acids Res. 32(11):3376-3382(2004)