

# NCDN Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP16948a

#### **Product Information**

Application WB, E
Primary Accession Q9UBB6

**Reactivity** Human Bovine, Mouse

HostRabbitClonalityPolyclonalIsotypeRabbit IgGClone NamesRB36544Calculated MW78864Antigen Region114-144

#### **Additional Information**

**Gene ID** 23154

Other Names Neurochondrin, NCDN, KIAA0607

**Target/Specificity** This NCDN antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 114-144 amino acids from the

N-terminal region of human NCDN.

**Dilution** 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** NCDN Antibody (N-term) is for research use only and not for use in diagnostic

or therapeutic procedures.

#### **Protein Information**

Name NCDN ( HGNC:17597)

Synonyms KIAA0607

**Function** Probably involved in signal transduction in the nervous system, via

increasing cell surface localization of GRM5/mGluR5 and positively regulating its signaling (PubMed:33711248). Required for the spatial learning process. Acts as a negative regulator of Ca(2+)- calmodulin-dependent protein kinase 2 (CaMK2) phosphorylation. May play a role in modulating melanin-concentrating hormone-mediated functions via its interaction with MCHR1 that interferes with G protein-coupled signal transduction. May be involved in bone metabolism. May also be involved in neurite outgrowth (Probable).

**Cellular Location** 

Cytoplasm, cytosol. Endosome membrane {ECO:0000250 | UniProtKB:O35095}; Lipid-anchor. Cell projection, dendrite {ECO:0000250 | UniProtKB:O35095}. Postsynapse {ECO:0000250 | UniProtKB:O35095}. Note=Localizes to somatic regions of neurons. Localization to endosome membrane requires palmitoylation {ECO:0000250 | UniProtKB:O35095}

**Tissue Location** 

Abundantly expressed in whole adult brain and in all individual brain regions examined, including spinal cord. Weakly expressed in ovary, testis, fetal brain and small intestine

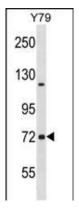
## **Background**

This gene encodes a leucine-rich cytoplasmic protein, which is highly similar to a mouse protein that negatively regulates Ca/calmodulin-dependent protein kinase II phosphorylation and may be essential for spatial learning processes. Several alternatively spliced transcript variants of this gene have been described.

### References

Dateki, M., et al. J. Biol. Chem. 280(21):20503-20508(2005) Mochizuki, R., et al. Biochem. Biophys. Res. Commun. 310(4):1219-1226(2003) Tchernev, V.T., et al. Mol. Med. 8(1):56-64(2002) Ohoka, Y., et al. Biochem. Biophys. Res. Commun. 280(1):237-243(2001) Mochizuki, R., et al. Biochim. Biophys. Acta 1490(3):367-368(2000)

## **Images**



NCDN Antibody (N-term) (Cat. #AP16948a) western blot analysis in Y79 cell line lysates (35ug/lane). This demonstrates the NCDN antibody detected the NCDN protein (arrow).

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