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NCDN Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16948a

Product Information

Application	WB, E
Primary Accession	Q9UBB6
Other Accession	Q9Z0E0, Q2KJ97, NP_001014841.1, NP_055099.1
Reactivity	Human
Predicted	Bovine, Mouse, Rat, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36544
Calculated MW	78864
Antigen Region	114-144

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

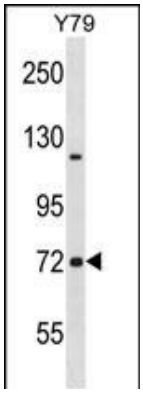
Background

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)
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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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.