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Neurochondrin Rabbit pAb

Catalog # AP98579

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9UBB6
Other Accession	Q9UBB6
Reactivity	Rat, Mouse
Predicted	Human, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	78864
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Neurochondrin
Epitope Specificity	221-320/729
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Interacts with SEMA4C, DIAPH1 (via FH3 domain) and GRM5 By similarity. Interacts with MCHR1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	23154
Other Names	NEDIES; MMS10-AE; Ms10ae; mKIAA0607; norbin; NCDN_BOVIN; NCDN; NCDN_HUMAN; KIAA0607; Q91YH7_MOUSE; NCDN_RAT; Neurite outgrowth-related protein from the rat brain; neurochondrin
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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

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