

**NCDN Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16948a****Specification**

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**NCDN Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q9UBB6](#)**NCDN Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 23154**Other Names**

Neurochondrin, NCDN, KIAA0607

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**NCDN Antibody (N-term) Blocking Peptide - 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:<a href="http://www.uniprot.org/citations/33711248" target="\_blank">33711248</a>). 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

### **NCDN Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **NCDN Antibody (N-term) Blocking Peptide - Images**

### **NCDN Antibody (N-term) Blocking Peptide - 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.

### **NCDN Antibody (N-term) Blocking Peptide - 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)