

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

NCDN Antibody (N-term) Blocking Peptide - Product InformationPrimary 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: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

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)