

Neurochondrin Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF2553a**Specification**

Neurochondrin Antibody (internal region) - Product Information

Application	E
Primary Accession	Q9UBB6
Other Accession	NP_055099.1 , NP_001014841.1 , 23154 , 26562 (mouse), 89791 (rat)
Predicted Host	Human, Mouse, Rat, Dog
Clonality	Goat
Concentration	Polyclonal
Isotype	0.5 mg/ml
Calculated MW	IgG
	78864

Neurochondrin Antibody (internal region) - Additional Information**Gene ID** 23154**Other Names**

Neurochondrin, NCDN, KIAA0607

Dilution

E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Neurochondrin Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

Neurochondrin Antibody (internal region) - 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

Neurochondrin Antibody (internal region) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Neurochondrin Antibody (internal region) - Images

Neurochondrin Antibody (internal region) - Background

This antibody is expected to recognize both reported isoforms (NP_055099.1; NP_001014841.1). Reported variants represent identical protein (NP_055099.1; NP_001014839.1).

Neurochondrin Antibody (internal region) - References

Neurochondrin negatively regulates CaMKII phosphorylation, and nervous system-specific gene disruption results in epileptic seizure. Dateki M, Horii T, Kasuya Y, Mochizuki R, Nagao Y, Ishida J, Sugiyama F, Tanimoto K, Yagami K, Imai H, Fukamizu A. J Biol Chem. 2005 May 27;280(21):20503-8. Epub 2005 Mar 24. PMID: 15790563