

NGDN Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14893C**Specification**

NGDN Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q8NEJ9
Other Accession	NP_056329.1 , NP_001036100.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	35894
Antigen Region	136-165

NGDN Antibody (Center) - Additional Information**Gene ID** 25983**Other Names**

Neuroguidin, Centromere accumulated nuclear protein 1, CANu1, EIF4E-binding protein, NGDN, C14orf120

Target/Specificity

This NGDN antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 136-165 amino acids from the Central region of human NGDN.

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

NGDN Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

NGDN Antibody (Center) - Protein Information**Name** NGDN ([HGNC:20271](#))

Synonyms C14orf120

Function Part of the small subunit (SSU) processome, first precursor of the small eukaryotic ribosomal subunit. During the assembly of the SSU processome in the nucleolus, many ribosome biogenesis factors, an RNA chaperone and ribosomal proteins associate with the nascent pre- rRNA and work in concert to generate RNA folding, modifications, rearrangements and cleavage as well as targeted degradation of pre- ribosomal RNA by the RNA exosome. Its dissociation from the complex determines the transition from state pre-A1 to state pre-A1* (PubMed:[34516797](#)). Inhibits mRNA translation in a cytoplasmic polyadenylation element (CPE)-dependent manner (By similarity).

Cellular Location

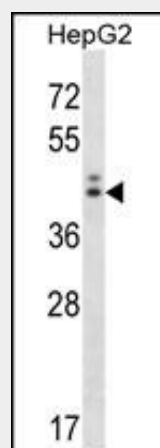
Nucleus {ECO:0000250|UniProtKB:Q9DB96}. Nucleus, nucleolus Chromosome, centromere. Cytoplasm {ECO:0000250|UniProtKB:Q9DB96}. Cell projection, axon {ECO:0000250|UniProtKB:Q9DB96}. Cell projection, dendrite {ECO:0000250|UniProtKB:Q9DB96}. Cell projection, filopodium {ECO:0000250|UniProtKB:Q9DB96}. Note=Translocated from nucleolus to nuclear foci in response to UV damage (By similarity). Detected in axons, dendrites and filopodia. Colocalized with EIF4E in neurites {ECO:0000250|UniProtKB:Q9DB96}

NGDN Antibody (Center) - 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](#)

NGDN Antibody (Center) - Images



NGDN Antibody (Center) (Cat. #AP14893c) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the NGDN antibody detected the NGDN protein (arrow).

NGDN Antibody (Center) - Background

Neuroguidin is an EIF4E (MIM 133440)-binding protein that

interacts with CPEB (MIM 607342) and functions as a translational regulatory protein during development of the vertebrate nervous system (Jung et al., 2006 [PubMed 16705177]).

NGDN Antibody (Center) - References

Sihn, C.R., et al. Genes Cells 13(8):787-796(2008)
Lamesch, P., et al. Genomics 89(3):307-315(2007)
Olsen, J.V., et al. Cell 127(3):635-648(2006)
Jung, M.Y., et al. Mol. Cell. Biol. 26(11):4277-4287(2006)
Nousiainen, M., et al. Proc. Natl. Acad. Sci. U.S.A. 103(14):5391-5396(2006)