

NGDN Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP14893c**Specification**

NGDN Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q8NEJ9](#)**NGDN Antibody (Center) Blocking Peptide - Additional Information**

Gene ID 25983

Other Names

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

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.

NGDN Antibody (Center) Blocking Peptide - Protein InformationName 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

NGDN Antibody (Center) Blocking Peptide - Images

NGDN Antibody (Center) Blocking Peptide - 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) Blocking Peptide - 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)