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CNTNAP2 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP8701c

Specification

CNTNAP2 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q9UHC6

CNTNAP2 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 26047

Other Names
Contactin-associated protein-like 2, Cell recognition molecule Caspr2, CNTNAP2, CASPR2 {ECO:0000303|PubMed:10624965}, KIAA0868

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8701c was selected from the Center region of human CNTNAP2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

CNTNAP2 Antibody (Center) Blocking Peptide - Protein Information

Name CNTNAP2

Synonyms CASPR2 {ECO:0000303|PubMed:10624965}, KI

Function
Required for gap junction formation (Probable). Required, with CNTNAP1, for radial and longitudinal organization of myelinated axons. Plays a role in the formation of functional distinct domains critical for saltatory conduction of nerve impulses in myelinated nerve fibers. Demarcates the juxtaparanodal region of the axo-glial junction.

Cellular Location
Membrane {ECO:0000250|UniProtKB:Q9CPW0}; Single- pass type I membrane protein. Cell projection, axon {ECO:0000250|UniProtKB:Q9CPW0}. Cell junction, paranodal septate junction {ECO:0000250|UniProtKB:Q9CPW0}. Note=Expressed in the juxtaparadonal region.

{ECO:0000250|UniProtKB:Q9CPW0}

Tissue Location
Predominantly expressed in nervous system.

CNTNAP2 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

CNTNAP2 Antibody (Center) Blocking Peptide - Images

CNTNAP2 Antibody (Center) Blocking Peptide - Background

CNTNAP2 is a member of the neurexin family which functions in the vertebrate nervous system as cell adhesion molecules and receptors. This protein, like other neurexin proteins, contains epidermal growth factor repeats and laminin G domains. In addition, it includes an F5/8 type C omain,discoidin/neuropilin- and fibrinogen-like domains, thrombospondin N-terminal-like domains and a putative PDZ binding site. This protein is localized at the juxtaparanodes of myelinated axons, and mediates interactions between neurons and glia during nervous system development and is also involved in localization of potassium channels within differentiating axons.

CNTNAP2 Antibody (Center) Blocking Peptide - References

Denisenko-Nehrbass,N., et.al., Eur. J. Neurosci. 17 (2), 411-416 (2003)Nakayama,M., et.al., Genome Res. 12 (11), 1773-1784 (2002)