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CNTNAP2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8701c

Specification

CNTNAP2 Antibody (Center) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	Q9UHC6
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**1079-1106**

CNTNAP2 Antibody (Center) - 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
This CNTNAP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1079-1106 amino acids from the Central region of human CNTNAP2.

Dilution
IHC-P~~1:50~100
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
CNTNAP2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

CNTNAP2 Antibody (Center) - 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}

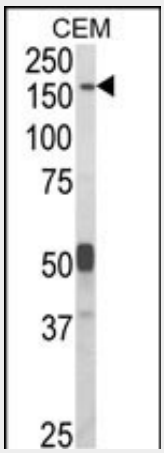
Tissue Location
Predominantly expressed in nervous system.

CNTNAP2 Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CNTNAP2 Antibody (Center) - Images



Western blot analysis of CNTNAP2 Antibody (Center) (Cat. #AP8701c) in CEM cell line lysates (35ug/lane). CNTNAP2 (arrow) was detected using the purified Pab.

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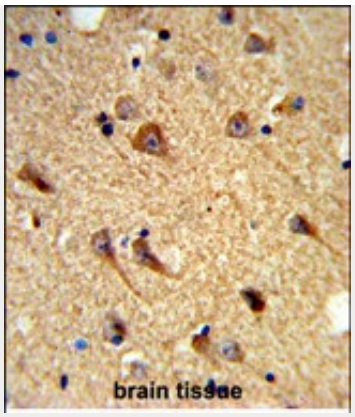

Formalin-fixed and paraffin-embedded mouse brain tissue reacted with CNTNAP2 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

CNTNAP2 Antibody (Center) - 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) - 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)