

**CNTNAP2 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP8701c**

**Specification**

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**CNTNAP2 Antibody (Center) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">O9UHC6</a>
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**

WB~~1:1000  
IHC-P~~1:50~100

**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 juxtaparanodal region. {ECO:0000250|UniProtKB:Q9CPW0}

#### Tissue Location

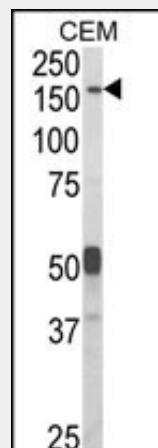
Predominantly expressed in nervous system.

### CNTNAP2 Antibody (Center) - Protocols

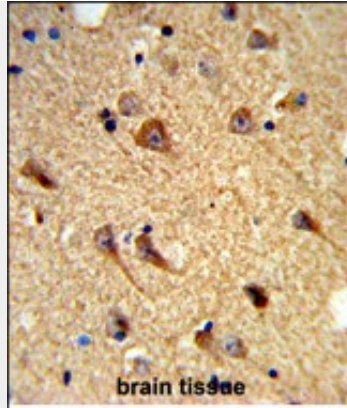
Provided below are standard protocols that you may find useful for product applications.

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



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 domain, 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)