# CNTNAP2 Antibody

Catalog No: #46529

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## Description

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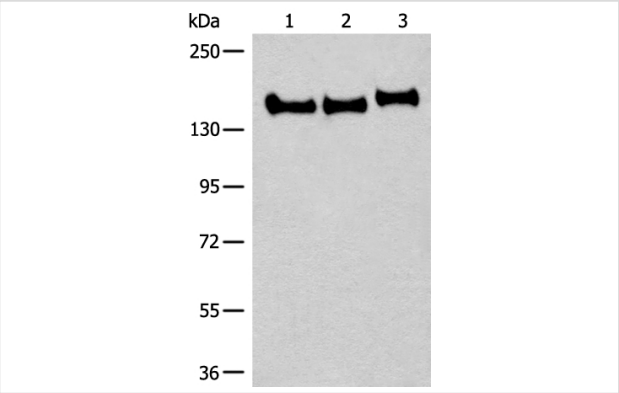
|---|---|
| Product Name | CNTNAP2 Antibody |
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Purification | Antigen affinity purification |
| Applications | WB IHC |
| Species Reactivity | Hu |
| Specificity | The antibody detects endogenous levels of total CNTNAP2 protein. |
| Immunogen Type | peptide |
| Immunogen Description | Synthetic protein corresponding to residues near the C terminal of human CNTNAP2 |
| Target Name | CNTNAP2 |
| Other Names | CDFE; NRXN4; AUTS15; CASPR2; PTHSL1 |
| Accession No. | Swiss-Prot:Q9UHC6NCBI Gene ID:26047NCBI Protein:BC113373 |
| Uniprot | Q9UHC6 |
| GeneID | 26047; |
| Calculated MW | 148 kDa |
| Concentration | 0.8mg/ml |
| Formulation | Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol. |
| Storage | Store at -20°C |

## Application Details

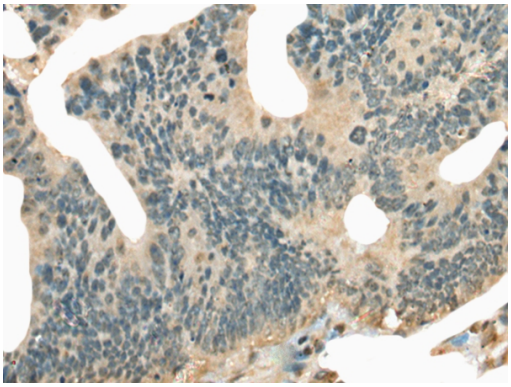
Western blotting: 1:200-1:1000

Immunohistochemistry: 1: 20-100

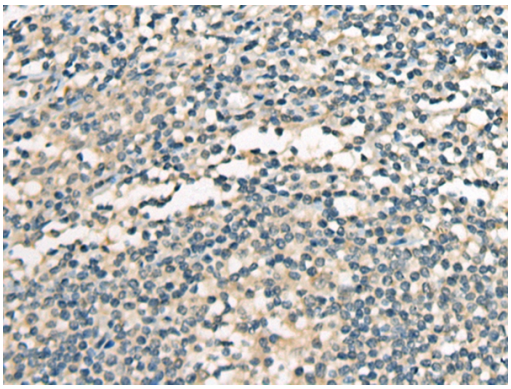
## Images




Gel: 6%SDS-PAGE
lysate: 40 B¦Γ g, Lane 1-3: Rat brain tissueB£B¬Mouse brain tissue and Human cerebrum tissue lysates,
Primary antibody: 46529B£B¨CNTNAP2 Antibody) at dilution 1/350
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution,
Exposure time: 1 minute



The image on the left is immunohistochemistry of paraffin-embedded Human colorectal cancer tissue using 46529(CNTNAP2 Antibody) at dilution 1/30, on the right is treated with fusion protein. (Original magnification: x200)



The image on the left is immunohistochemistry of paraffin-embedded Human tonsil tissue using 46529(CNTNAP2 Antibody) at dilution 1/30, on the right is treated with fusion protein. (Original magnification: x200)

## Background

This gene encodes 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. This gene encompasses almost 1.5% of chromosome 7 and is one of the largest genes in the human genome. It is directly bound and regulated by forkhead box protein P2 (FOXP2), a transcription factor related to speech and language development. This gene has been implicated in multiple neurodevelopmental disorders, including Gilles de la Tourette syndrome, schizophrenia, epilepsy, autism, ADHD and mental retardation.

Note: This product is for in vitro research use only