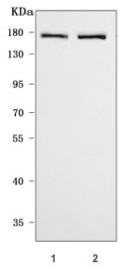
CASPR2 Antibody / CNTNAP2 (RQ7997)

Catalog No.	Formulation	Size
RQ7997	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9UHC6
Applications	Western blot: 0.5-1ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This CASPR2 antibody is available for research use only.



Western blot testing of 1) rat brain and 2) mouse brain tissue lysate with CASPR2 antibody. Predicted molecular weight ~148 kDa but may be observed at higher molecular weights due to glycosylation.

Description

Contactin-associated protein-like 2 is a protein that in humans is encoded by the CNTNAP2 gene. 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, 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 intellectual disability.

Application Notes

Optimal dilution of the CASPR2 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids N363-E1159) was used as the immunogen for the CASPR2 antibody.

Storage

After reconstitution, the CASPR2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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