Datasheet for ABIN7320203

CNTNAP2 Protein (His tag)

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1 Image

Overview

Quantity:	100 µg
Target:	CNTNAP2
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CNTNAP2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse CNTNAP2/CASPR2 Protein (His Tag)(Active)
Sequence:	Met 1-Ser 1262
Characteristics:	A DNA sequence encoding the extracellular domain of mouse CASPR2 (NP_001004357.2) (Met 1-Ser 1262) was expressed, with a C-terminal polyhistidine tag.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by the ability of the immobilized protein to support the adhesionof C6 Rat brain glial cells. Mouse CASPR2 immobilized (0.8 µg/ml, 100 µl/well) will mediate >30 % C6 cell adhesion.

Target Details

Target:	CNTNAP2

Target Details

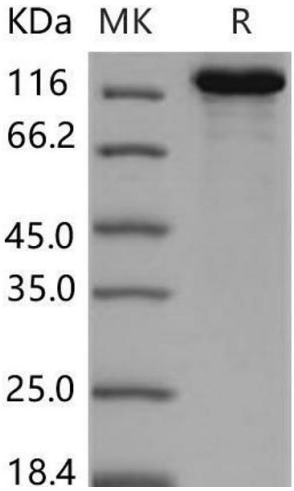
Alternative Name:	CNTNAP2/CASPR2 (CNTNAP2 Products)
Background:	Background: CNTNAP2/CASPR2 is a member of the neurexin family which functions in the vertebrate nervous system as cell adhesion molecules and receptors. This protein, like other neurexin proteins, contains epidermal growth factor repeats 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. CNTNAP2/CASPR2 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 protein encoding gene 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. CNTNAP2/CASPR2 may play a role in the formation of functional distinct domains critical for saltatory conduction of nerve impulses in myelinated nerve fibers. CNTNAP2/CASPR2 Seems to demarcate the juxtaparanodal region of the axo-glial junction. Synonym: 5430425M22Rik,Caspr2,mKIAA0868
Molecular Weight:	139 kDa
NCBI Accession:	NP_001004357

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting
Image 1.

