CNTNAP2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CNTNAP2, Polyclonal Antibody
Full Product Name	CNTNAP2 (Contactin-associated Protein-like 2, Cell Recognition Molecule Caspr2, KIAA0868, CASPR2) (MaxLight 550)
Product Gene Name	anti-CNTNAP2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CNTNAP2.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Molecular Weight	11,899 Da
3D Structure	ModBase 3D Structure for Q9UHC6
Immunogen	Full length human CNTNAP2, aa1-1331 (NP_054860.1).
Immunogen Sequence	MQAAPRAGCGAALLLWIVSSCLCRAWTAPSTSQKCDEPLVSGLPHVAFSSSSSISGSYSPGYAKINKRGGAGGWSPSDSDHYQWLQVDFGNRKQISAIA
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-CNTNAP2 antibody	Antibodies; Neuroscience
Applications Tested/Suitable for anti-CNTNAP2 antibody	Western Blot (WB)
Application Notes for anti-CNTNAP2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CNTNAP2 antibody	CNTNAP2 is a member of the neurexin family which functions in the vertebrate nervous system as cell adhesion molecules and receptors. This protein
Other Notes	Small volumes of anti-CNTNAP2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If ne

Searchable Terms for CNTNAP2 purchase	MBS6374309 is an antibody targeting CNTNAP2. Also known as CNTNAP2 (Contactin-associated Protein-like 2, Cell Recognition Molecule Caspr2, K

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CNTNAP2. It may not necessarily be applicable to this product.

NCBI GI #	7662350
NCBI GeneID	26047
NCBI Accession #	NP_054860.1
UniProt Primary Accession #	Q9UHC6
UniProt Secondary Accession #	Q14DG2; Q52LV1; Q5H9Q7; Q9UQ12; D3DWG2
UniProt Related Accession #	Q9UHC6
GenBank Nucleotide #	NM_014141.4
NCBI Official Full Name	contactin-associated protein-like 2
NCBI Official Synonym Full Names	contactin associated protein like 2
NCBI Official Symbol	CNTNAP2
NCBI Official Synonym Symbols	CDFE; NRXN4; AUTS15; CASPR2; PTHSL1
UniProt Protein Name	Contactin-associated protein-like 2
UniProt Synonym Protein Names	Cell recognition molecule Caspr2
Protein Family	Contactin-associated protein
UniProt Gene Name	CNTNAP2
NCBI Protein Information	contactin-associated protein-like 2
NCBI Summary for CNTNAP2	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. [provided by RefSeq, Jul 2017]
UniProt Comments for CNTNAP2	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.
Research Articles on CNTNAP2	**1.** This study evaluated a possible association between ASD and the presence of five single nucleotide polymorph-isms (rs7794745, rs10500171, rs2710105,rs2710102, and rs2538989) in CNTNAP2in the Korean population. The genetic variants in CNTNAP2 do not play a role in ASD affection possibility in this study, but evidence suggests that one SNP(rs10500171) might be associated with sociality-relatedphenotypes in Koreans
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