

Datasheet for ABIN6656679

anti-CNTNAP2 antibody (Extracellular Domain)[Go to Product page](#)**2** Images

Overview

Quantity:	100 µg
Target:	CNTNAP2
Binding Specificity:	Extracellular Domain
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CNTNAP2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Fluorescence Microscopy (FM)

Product Details

Immunogen:	Immunogen: CASPR2 Antibody was produced in mice by repeated immunizations with a fusion protein (extracellular domain) of human CASPR2. Immunogen Type: Recombinant Protein
Clone:	S67-25
Isotype:	IgG2a
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Purification:	Anti-CASPR2 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with CASPR2 from Mouse, Human, and Rat based on 100% homology with the immunizing sequence. No cross reactivity to CASPR/Paranodin. Cross-reactivity with CASPR2 from other sources has not been determined. Scaffolds research.

Target Details

Target:	CNTNAP2
Alternative Name:	CASPR2 (CNTNAP2 Products)
Background:	<p>Synonyms: Cntnap2, CNTP2, Contactin associated protein like 2, Cell recognition molecule Caspr2, CASPR2, KIAA0868</p> <p>Background: Caspr (contactin-associated protein) is a part of the neurexin family. It lies in the paranodal section of the myelin sheath. It's role is for myelin sheath attachment along with contactin in a cis-complex (3). Caspr and Caspr2 regulate the formation of distinct axonal domains around the nodes of Ranvier. Caspr is required for the generation of a membrane barrier at the paranodal junction, whereas Caspr serves as a membrane scaffold that clusters Kv1 channels at the juxtaparanodal region. Both interact with protein 4.1B.</p> <p>Gene Name: CNTNAP2</p>
Gene ID:	26047
NCBI Accession:	NP_054860
UniProt:	Q9UHC6

Application Details

Application Notes:	<p>Immunohistochemistry Dilution: 0.1-1.0 µg/mL</p> <p>Application Note: Anti-CASPR2 Antibody is suitable for use in WB, IP, and IHC. Expect a band approximately ~180 kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.</p> <p>Immunoprecipitation Dilution: User Optimized</p> <p>Western Blot Dilution: 1 µg/mL</p> <p>IF Microscopy Dilution: 1.0-10 µg/mL</p>
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Buffer:	<p>Buffer: 1X PBS, pH 7.4</p> <p>Stabilizer: 50 % (v/v) Glycerol</p> <p>0.09 % (w/v) Sodium Azide</p>
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

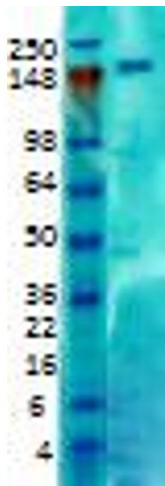
Handling

should be handled by trained staff only.

Storage: RT,4 °C,-20 °C

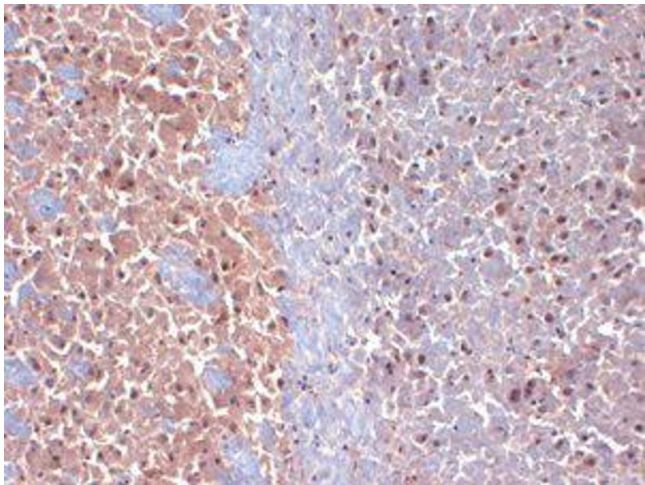
Storage Comment: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Images



Western Blotting

Image 1. CASPR2 Western Blot. Western Blot of mouse anti-CASPR2 anitbody. Lane 1: Rat brain membrane tissues. Load: 10ug. Primary antibody: CASPR2 at 1:1000 overnight at 4°C. Secondary antibody: Goat anti-mouse IgG HRP at 1:40,000 for 45 min at RT. Blocked: 5% Blotto overnight at 4°C. Predicated/observed size: 148kDa, 180 kDa for CASPR2.



Immunohistochemistry

Image 2. CASPR2 Immunohistochemistry. Immunohistochemistry of Mouse anti-CASPR2 antibody. Tissue: mouse brain extract. Fixation: Frozen. Primary Antibody: anti-CASPR2 antibody at 1ug/ml for 1h at RT. Secondary antibody: Peroxidase mouse secondary at 1:10,000 for 45 min at RT. Localization: Membrane. Staining: CASPR2 as precipiated brown signal.