

Datasheet for ABIN6658098
anti-CNTNAP1 antibody

3 Images

[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	CNTNAP1
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CNTNAP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Fluorescence Microscopy (FM)

Product Details

Immunogen:	Immunogen: CASPR Antibody was produced in mice by repeated immunizations with a fusion protein of rat CASPR. Immunogen Type: Recombinant Protein
Clone:	S65-35
Isotype:	IgG1
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Purification:	Anti-CASPR Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with CASPR from Mouse, Human, and Rat based on 100% homology with the immunizing sequence. Cross-reactivity with CASPR from other sources has not been determined. Scaffolds research.

Target Details

Target:	CNTNAP1
Alternative Name:	CASPR (CNTNAP1 Products)
Background:	<p>Synonyms: CASPR1, CNTP1, Contactin associated protein 1, NCP1, Paranodin, Neurexin 4, p190, CASPR, NRXN4</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. 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: CNTNAP1</p>
Gene ID:	8506
NCBI Accession:	NP_003623
UniProt:	P78357
Pathways:	Cell-Cell Junction Organization

Application Details

Application Notes:	<p>Immunohistochemistry Dilution: 0.1-1.0 µg/mL</p> <p>Application Note: Anti-CASPR Antibody is suitable for use in WB, IP, and IHC. Expect a band approximately ~220 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>
Restrictions:	For Research Use only

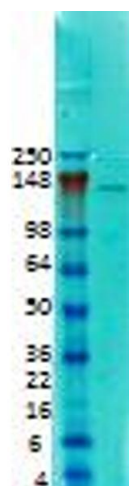
Handling

Format:	Liquid
Buffer:	<p>Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2</p> <p>Stabilizer: 50 % (v/v) Glycerol</p>
Storage:	RT, 4 °C, -20 °C

Handling

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. CASPR Western Blot. Western Blot of mouse anti-CASPR antibody. Lane 1: molecular weight marker. Lane 2: Rat brain membrane tissues. Load: 10ug. Primary antibody: CASPR 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% Biotin overnight at 4°C. Predicated/observed size: 156.2kDa, 220kDa for CASPR.



Immunohistochemistry

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



Immunohistochemistry

Image 3. CASPR Immunohistochemistry. Immunohistochemistry of Mouse anti-CASPR antibody. Tissue: mouse brain extract. Fixation: Frozen. Primary Antibody: anti-CASPR antibody at 1ug/ml for 1h at RT. Secondary antibody: Peroxidase mouse secondary at 1:10,000 for 45 min at RT. Localization: Myelin Fibers. Staining: CASPR as precipitated brown signal.