

Datasheet for 200-301-F03**Caspr Antibody****Overview**

Description:	Anti-CASPR (MOUSE) Monoclonal Antibody - 200-301-F03
Item No.:	200-301-F03
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

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.
Synonyms:	CASPR1, CNTP1, Contactin associated protein 1, NCP1, Paranodin, Neurexin 4, p190, Caspr, NRXN4, Neurexin IV, Neurexin-4
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	S65-35
Format:	IgG1

Target Details

Gene Name:	Cntnap1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Recombinant Protein
Immunogen:	CASPR Antibody was produced in mice by repeated immunizations with a fusion protein of rat CASPR.

Purity/Specificity: 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.

Relevant Links:

- [NCBI - NP_114450.1](#)
- [GeneID - 84008](#)
- [UniProtKB - P97846](#)

Application Details

Tested Applications: IHC, WB

Application Note: Anti-CASPR Antibody is tested by WB, IP, and IHC. Expect a band approximately ~220kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

IF: 1.0-10ug/mL

IHC: 0.1-1.0ug/mL

IP: User Optimized

WB: 1ug/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

Buffer: 1X PBS, pH 7.4

Preservative: 0.09% (w/v) Sodium Azide

Stabilizer: 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: 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.

Expiration: Expiration date is one (1) year from date of receipt.

Images



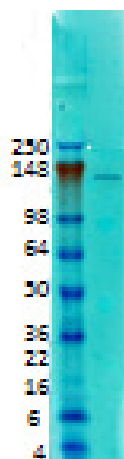
Immunohistochemistry

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.



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**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% Blotto overnight at 4°C. Predicated/observed size: 156.2kDa, 220kDa for CASPR.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.