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Datasheet for 200-301-G18

Nav1.1 Antibody

Overview

Description:	Anti-Nav1.1 (MOUSE) Monoclonal Antibody - 200-301-G18
Item No.:	200-301-G18
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	Voltage gated sodium channels initiate action potentials in neurons. Nav1.1 is abundant in the adult brain, and primarily localized in cell bodies. Mutations in the Nav1.1 channels cause generalized epilepsy with febrile seizures plus (GEFS+). Studies show that Nav1.1 channels also play a crucial role in the excitability of cerebellar Purkinje neurons, with major contributions to peak, persistent and resurgent forms of sodium current and to sustained action potential firing.
Synonyms:	FEB3, Scn1a, GEFSP2, HBSCI, SCN1, Sodium channel 3
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	S74-71
Format:	IgG1

Target Details

Gene Name:	Scn1a
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Recombinant Protein
Immunogen:	Nav1.1 Antibody was produced in mice by repeated immunizations raised against a fusion protein corresponding to the cytoplasmic C-terminus region of rat Nav1.1.

Purity/Specificity:	Anti-Nav1.1 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Nav1.1 from Mouse, Human, and Rat based on 100% homology with the immunizing sequence. No cross reactivity against Nav1.2, Nav1.3 and Nav1.6. Cross-reactivity with Nav1.1 from other sources has not been determined. Ion Channels research.
Relevant Links:	• NCBI - NP_110502.1 • GeneID - 81574 • UniProtKB - P04774

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-Nav1.1 Antibody is tested for use in WB, IP, and IHC. Expect a band approximately ~220kDa on specific lysates. Epitope mapped within amino acids 690-715. 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

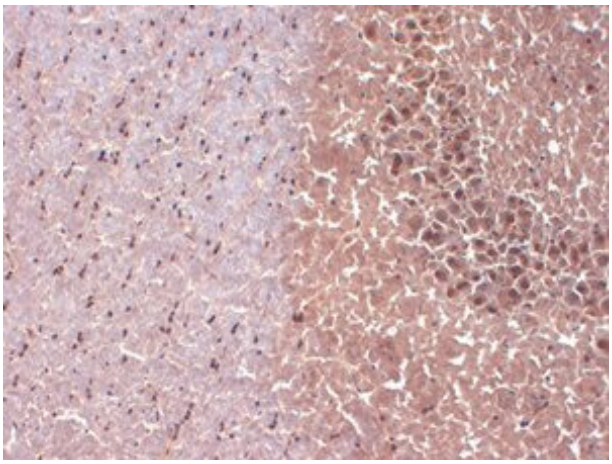
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	1X PBS, pH 7.4
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Wet 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-Nav1.1 antibody. Tissue: Frozen sections of mouse brain extract. Primary Antibody: Nav1.1 antibody at 1 µg/mL for 1h at RT. Secondary antibody: Peroxidase mouse secondary at 1:10,000 for 45 min at RT. Localization: Membrane. Staining: Nav1.1 as brown signal.

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.