Datasheet for ABIN6658122

anti-SCN1A antibody (C-Term)

1 Image

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Overview

Quantity:	100 µg
Target:	SCN1A
Binding Specificity:	C-Term
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SCN1A antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB), Immunoprecipitation (IP), Fluorescence Microscopy (FM)

Product Details

Immunogen:	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. Immunogen Type: Recombinant Protein
Clone:	S74-71
Isotype:	IgG1
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Purification:	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.

Target Details

Target:	SCN1A
Alternative Name:	Nav1.1 (SCN1A Products)
Background:	Synonyms: FEB3, Scn1a, GEFSP2, HBSCI, SCN1, Sodium channel 3 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. Gene Name: Scn1a
Gene ID:	20265
NCBI Accession:	NP_061203
UniProt:	Q62206

Application Details

Application Notes:	Immunohistochemistry Dilution: 0.1-1.0 µg/mL Application Note: Anti-Nav1.1 Antibody is suitable for use in WB, IP, and IHC. Expect a band approximately ~220 kDa on specific lysates. Epitope mapped within amino acids 690-715. Specific conditions for reactivity should be optimized by the end user. Immunoprecipitation Dilution: User Optimized Western Blot Dilution: 1 µg/mL IF Microscopy Dilution: 1.0-10 µg/mL
Restrictions:	For Research Use only

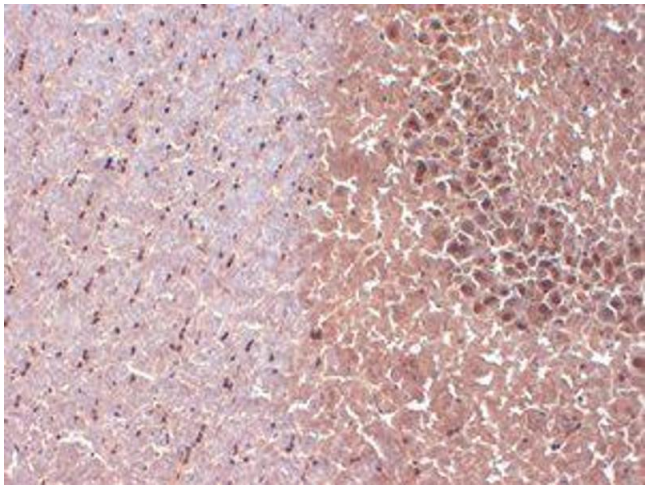
Handling

Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 50 % (v/v) Glycerol
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

Handling

liquid. Dilute only prior to immediate use.

Images



Immunohistochemistry

Image 1. Nav1.1 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.

