



Datasheet for ABIN7043638  
**anti-SCN1A antibody (Intracellular)**



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3 Images

### Overview

Quantity:	25 µL
Target:	SCN1A
Binding Specificity:	AA 465-481, Intracellular
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SCN1A antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP), Immunocytochemistry (ICC)

### Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)TASEHSREPSAAGRLSD, corresponding to amino acid residues 465-481 of rat NaV1.1
Isotype:	IgG
Characteristics:	Anti-SCN1A (NaV1.1) Antibody (ABIN7043638, ABIN7045223 and ABIN7045224) is a highly specific antibody directed against an epitope of the rat protein. The antibody can be used in western blot, immunoprecipitation, immunohistochemistry, and immunocytochemistry applications. It has been designed to recognize NaV1.1 from rat, human, and mouse samples.
Purification:	Affinity purified on immobilized antigen.

## Target Details

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Target:	SCN1A
Alternative Name:	SCN1A (NaV1.1) ( <a href="#">SCN1A Products</a> )
Background:	Alternative names: SCN1A (NaV1.1), Brain type I sodium channel, BI, Sodium channel protein type 1 subunit alpha
Gene ID:	81574
NCBI Accession:	<a href="#">NM_006920</a>
UniProt:	<a href="#">P04774</a>

## Application Details

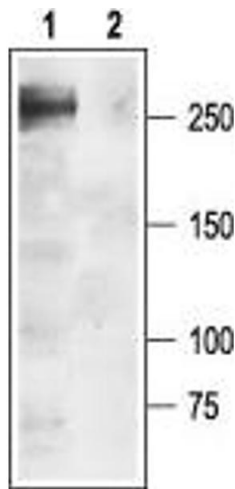
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Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

## Handling

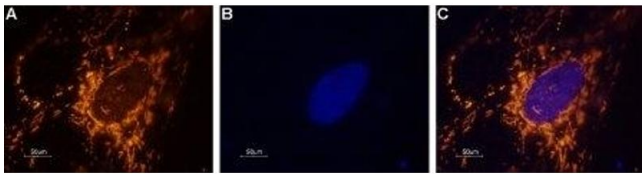
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Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.6 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT, 4 °C, -20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).



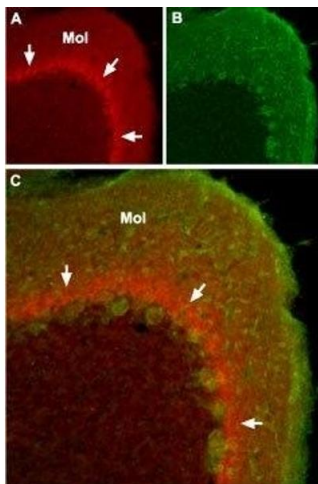
### Western Blotting

**Image 1.** Western blot analysis of rat brain membranes: - 1. Anti-SCN1A (Nav1.1) Antibody (ABIN7043638, ABIN7045223 and ABIN7045224), (1:200). 2. Anti-SCN1A (Nav1.1) Antibody, preincubated with SCN1A/Nav1.1 Blocking Peptide (#BLP-SC001).



### Immunocytochemistry

**Image 2.** Expression of NaV1.1 in rat DRG cells - Immunocytochemical staining of Paraformaldehyde-fixed and permeabilized rat dorsal root ganglion (DRG) using Anti-SCN1A (Nav1.1) Antibody (ABIN7043638, ABIN7045223 and ABIN7045224), (1:200), followed by goat anti-rabbit-AlexaFluor-555 secondary antibody. Nuclear staining of cells using the cell-permeable dye Hoechst 33342.



### Immunohistochemistry

**Image 3.** Expression of NaV1.1 sodium channel in mouse cerebellum - Immunohistochemical staining of mouse cerebellum using Anti-SCN1A (Nav1.1) Antibody (ABIN7043638, ABIN7045223 and ABIN7045224). A. The distribution of NaV1.1 (red) forms a band (arrows) in the molecular layer (Mol), close to the Purkinje cell bodies. B. Purkinje nerve cells are stained with mouse anti-Parvalbumin (green). C. Confocal merge of NaV1.1 and Parvalbumin.