

Datasheet for ABIN7043640  
**anti-SCN2A antibody (Intracellular)**[Go to Product page](#)

## 2 Images

## Overview

Quantity:	50 µL
Target:	SCN2A
Binding Specificity:	AA 467-485, Intracellular
Reactivity:	Human, Rat, Mouse
Host:	Guinea Pig
Clonality:	Polyclonal
Conjugate:	This SCN2A antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB), Immunofluorescence (IF)

## Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)ASAESRDFSGAGGIGVFSE, corresponding to amino acid residues 467-485 of rat Nav1.2
Isotype:	IgG
Characteristics:	Guinea pig Anti-SCN2A (Nav1.2) Antibody is directed against an epitope of rat Nav1.2 channel. Guinea pig Anti-SCN2A (Nav1.2) Antibody (#) raised in guinea pigs can be used in western blot and immunohistochemistry applications. It has been designed to recognize Nav1.2 from rat, human and mouse samples. The antigen used to immunize guinea pigs is the same as Anti-SCN2A (Nav1.2) Antibody (ABIN7043641, ABIN7045225 and ABIN7045226)) raised in rabbit. Our line of guinea pig antibodies enables more flexibility with our products such as multiplex staining studies, immunoprecipitation, etc.

## Product Details

Purification: Affinity purified on immobilized antigen.

## Target Details

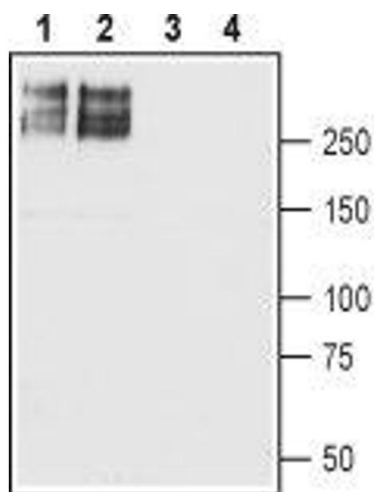
Target:	SCN2A
Alternative Name:	SCN2A (NaV1.2) ( <a href="#">SCN2A Products</a> )
Background:	Alternative names: SCN2A (NaV1.2), BII, Brain type II Na <sup>+</sup> channel, Sodium channel protein type 2 subunit alpha
Gene ID:	29571
NCBI Accession:	<a href="#">NM_021007</a>
UniProt:	<a href="#">P04775</a>

## Application Details

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

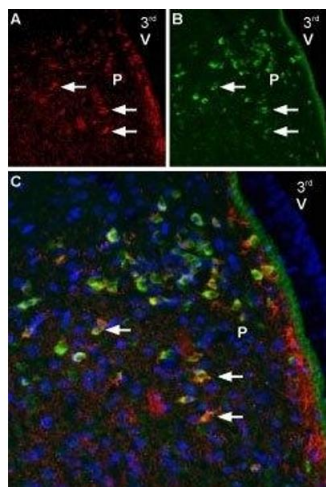
## Handling

Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.9 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:	<p>Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.</p> <p>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).</p>



Western Blotting

**Image 1.** Western blot analysis of rat brain (lanes 1 and 3) and mouse brain (lanes 2 and 4) membranes: - 1,2. Guinea pig Anti-SCN2A (Nav1.2) Antibody (ABIN7043640, ABIN7045381 and ABIN7045382), (1:1000).3,4. Guinea pig Anti-SCN2A (Nav1.2) Antibody, preincubated with SCN2A/Nav1.2 Blocking Peptide (#BLP-SC002).



Immunohistochemistry

**Image 2.** Multiplex staining of Melatonin receptor type 1B and Nav1.2 in rat paraventricular nucleus - Immunohistochemical staining of perfusion-fixed frozen rat paraventricular nucleus sections using Anti-Melatonin Receptor 1B (MTNR1B) Antibody (ABIN7043327, ABIN7044601 and ABIN7044602), (1:600) and Guinea pig Anti-SCN2A (Nav1.2) Antibody (ABIN7043640, ABIN7045381 and ABIN7045382), (1:2000). A. MTNR1B staining (red) (arrows). B. The same section labeled for Nav1.2 (green). C. Merge of A and B demonstrates partial co-localization of MTNR1B and Nav1.2 in the paraventricular nucleus (PVN). For orientation, note location with respect to the third ventricle (3rd V). Cell nuclei were stained with DAPI (blue).