

Datasheet for ABIN7043641

**anti-SCN2A antibody (Intracellular)****3** Images[Go to Product page](#)

## Overview

Quantity:	25 µL
Target:	SCN2A
Binding Specificity:	AA 467-485, Intracellular
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SCN2A 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)ASAESRDFSGAGGIGVFSE, corresponding to amino acid residues 467-485 of rat NaV1.2
Isotype:	IgG
Characteristics:	Anti-SCN2A (NaV1.2) Antibody (ABIN7043641, ABIN7045225 and ABIN7045226)) 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 NaV1.2 from rat, human, and mouse samples.
Purification:	Affinity purified on immobilized antigen.

## Target Details

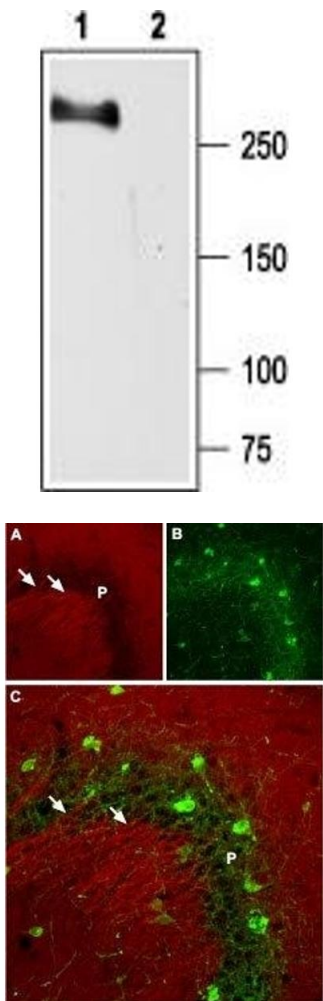
Target:	SCN2A
Alternative Name:	SCN2A (NaV1.2) ( <a href="#">SCN2A Products</a> )
Background:	Alternative names: SCN2A (NaV1.2), BII, Brain type II Na <sup>+</sup> channel, Sodium channel protein type 2 subunit alpha
Gene ID:	24766
NCBI Accession:	<a href="#">NM_021007</a>
UniProt:	<a href="#">P04775</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:	0.8 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>

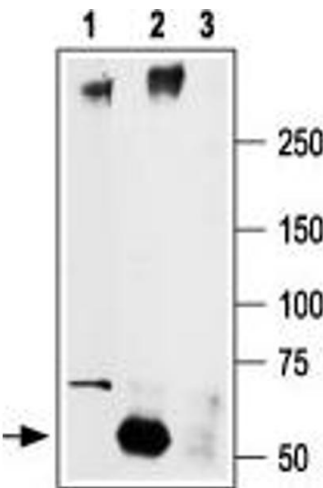


### Western Blotting

**Image 1.** Western blot analysis of rat brain membranes: - 1. Anti-SCN2A (NaV1.2) Antibody (ABIN7043641, ABIN7045225 and ABIN7045226), (1:200). 2. Anti-SCN2A (NaV1.2) Antibody, preincubated with SCN2A/Nav1.2 Blocking Peptide (#BLP-SC002).

### Immunohistochemistry

**Image 2.** Expression of NaV1.2 in mouse hippocampus - Immunohistochemical staining of mouse hippocampus using Anti-SCN2A (NaV1.2) Antibody (ABIN7043641, ABIN7045225 and ABIN7045226 ). A. NaV1.2 (red) is present in dendrites of pyramidal neurons in the CA3 region. B. Staining of interneurons in the pyramidal layer with mouse anti-Parvalbumin (green) demonstrates the restriction of NaV1.2 to dendrites (arrows) extending from the pyramidal layer (P). C. Confocal merge of panels A and B.



### Immunoprecipitation

**Image 3.** Immunoprecipitation of rat brain lysate: - 1. Rat brain lysates. 2. Lysates immunoprecipitated with Anti-SCN2A (NaV1.2) Antibody (ABIN7043641, ABIN7045225 and ABIN7045226), (6 µg). 3. Lysates immunoprecipitated with pre-immune rabbit serum. The lower arrow indicates the IgG heavy chain. Western blot analysis was performed with Anti-SCN2A (NaV1.2) Antibody.