

Datasheet for ABIN7043651
anti-SCN8A antibody (Intracellular)



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3 Images

Overview

Quantity:	25 µL
Target:	SCN8A
Binding Specificity:	AA 1042-1061, Intracellular
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SCN8A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: CIANHTGVDIHRNGDFQKNG, corresponding to amino acid residues 1042-1061 of rat Nav1.6
Isotype:	IgG
Characteristics:	Anti-Nav1.6 (SCN8A) Antibody (ABIN7043651, ABIN7045231 and ABIN7045232)) is a highly specific antibody directed against an epitope of the rat protein. The antibody can be used in western blot, immunohistochemistry, and immunocytochemistry applications. It has been designed to recognize Nav1.6 sodium channel from rat, human, and mouse samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

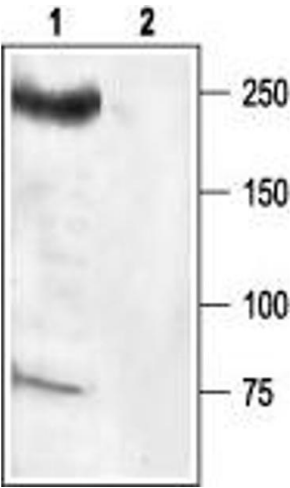
Target:	SCN8A
Alternative Name:	NaV1.6 (SCN8A) (SCN8A Products)
Background:	Alternative names: NaV1.6, Sodium channel voltage-gated type VIII alpha subunit, NaCh6, PN4, CerIII
Gene ID:	29710
NCBI Accession:	NM_014191
UniProt:	O88420
Pathways:	Sensory Perception of Sound

Application Details

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

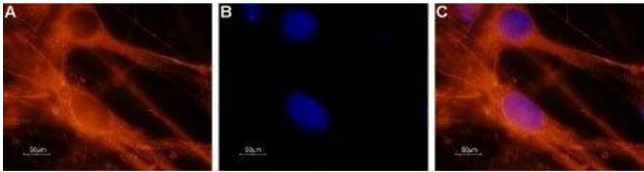
Handling

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>



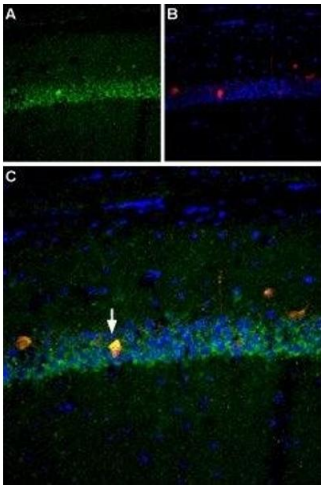
Western Blotting

Image 1. Western blot analysis of rat brain membrane: - 1. Anti-NaV1.6 (SCN8A) Antibody (ABIN7043651, ABIN7045231 and ABIN7045232), (1:200). 2. Anti-NaV1.6 (SCN8A) Antibody, preincubated with Nav1.6/SCN8A Blocking Peptide (#BLP-SC009).



Immunocytochemistry

Image 2. Expression of NaV1.6 in rat DRG primary culture - Immunocytochemical staining of paraformaldehyde-fixed and permeabilized DRG primary culture. A. Staining using Anti-NaV1.6 (SCN8A) Antibody (ABIN7043651, ABIN7045231 and ABIN7045232), (1:200) followed by goat anti-rabbit-AlexaFluor-555 secondary antibody. B. Nuclear staining using the cell-permeable dye Hoechst 33342. C. Merged image of panels A and B.



Immunohistochemistry

Image 3. Expression of NaV1.6 in mouse hippocampus - Immunohistochemical staining of mouse hippocampus using Anti-NaV1.6 (SCN8A) Antibody (ABIN7043651, ABIN7045231 and ABIN7045232). A. NaV1.6 (green) is robustly expressed in the CA1 pyramidal layer (white arrows). B. Staining with mouse anti-parvalbumin (red), a marker of interneurons. C. Merged image of panels A and B reveals that NaV1.6 appears in some interneurons (arrow) but is not restricted to interneurons. DAPI is used as the counterstain.