Datasheet for ABIN7043644

anti-SCN3A antibody (3rd Extracellular Loop, Domain 1)

2 Images

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Overview

Quantity:	25 µL
Target:	SCN3A
Binding Specificity:	3rd Extracellular Loop, AA 277-288, Domain 1
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SCN3A antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), Live Cell Imaging (LCI)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: CSQWPPSDSAFE, corresponding to amino acid residues 277-288 of rat NaV1.3
Isotype:	IgG
Cross-Reactivity (Details):	May recognize NaV1.1 and NaV1.2 due to a moderate homology between the chosen sequence and the sequences of NaV1.1 and NaV1.2 (although there are no five amino acids identical in a row as considered to be the minimum needed for antibody/antigen recognition).
Characteristics:	Anti-SCN3A (Nav1.3) (extracellular) Antibody is directed against an epitope of the rat NaV1.3 channel. Anti-SCN3A (NaV1.3) (extracellular) Antibody (ABIN7043644, ABIN7045250 and ABIN7045251)) can be used in western blot, and live cell imaging applications. It has been

Product Details

	designed to recognize NaV1.3 from rat, human and mouse samples. The antibody may recognize NaV1.1 and NaV1.2 due to a moderate homology between the chosen sequence and the sequences of NaV1.1 and NaV1.2 (although there are no five amino acids identical in a row as considered to be the minimum needed for antibody/antigen recognition).
Purification:	Affinity purified on immobilized antigen.

Target Details

Target:	SCN3A
Alternative Name:	SCN3A (NaV1.3) (SCN3A Products)
Background:	Alternative names: SCN3A (NaV1.3), BIII, Brain type III Na+ channel, Sodium channel protein type 3 subunit alpha
Gene ID:	497770
NCBI Accession:	NM_006922
UniProt:	P08104

Application Details

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

Handling

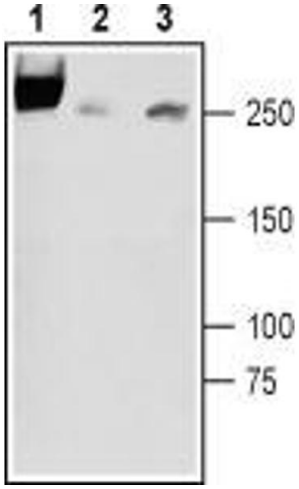
Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.85 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	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.

Handling

Upon arrival, it should be stored at -20°C.

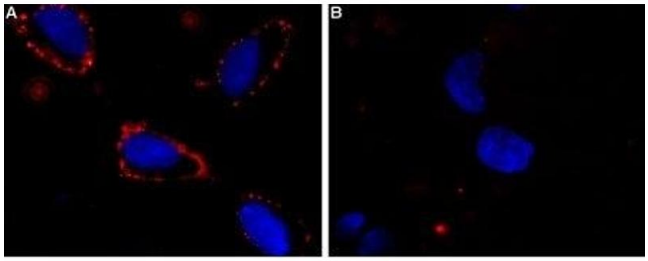
Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

Images



Western Blotting

Image 1. Western blot analysis of rat newborn brain lysates (lanes 1 and 3), rat adult brain membranes (lane 2): -1,2. Anti-SCN3A (NaV1.3) (extracellular) Antibody (ABIN7043644, ABIN7045250 and ABIN7045251), (1:200).3. Anti-SCN3A (NaV1.3) (extracellular) Antibody, preincubated with SCN3A/Nav1.3 (extracellular) Blocking Peptide (#BLP-SC023).



Immunocytochemistry

Image 2. Expression of NaV1.3 in HEK-293 transfected cells - Cell surface detection of NaV1.3 in intact living HEK-293 cells expressing rat NaV1.3. A. Extracellular staining of cells using Anti-SCN3A (NaV1.3) (extracellular) Antibody (ABIN7043644, ABIN7045250 and ABIN7045251), (red). B. Cells transfected with the empty vector show no NaV1.3 staining. Nuclear staining using DAPI as the counterstain (blue).