

Datasheet for ABIN7603132
anti-SCN11A antibody (N-Term)



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Overview

Quantity:	100 µg
Target:	SCN11A
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SCN11A antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-SCN11A Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human SCN11A, which shares 87.2% and 89.7% amino acid (aa) sequence identity with mouse and rat SCN11A, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-SCN11A Antibody Picoband® (ABIN7603132). Tested in Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: SCN11A

Alternative Name: SCN11A ([SCN11A Products](#))

Background: Synonyms: Sodium channel protein type 11 subunit alpha, Peripheral nerve sodium channel 5, PN5, Sensory neuron sodium channel 2, Sodium channel protein type XI subunit alpha, Voltage-gated sodium channel subunit alpha Nav1.9, hNaN, SCN11A, SCN12A, SNS2

Tissue Specificity: Expressed in the dorsal root ganglia and trigeminal ganglia, olfactory bulb, hippocampus, cerebellar cortex, spinal cord, spleen, small intestine and placenta.

Background: Sodium channel, voltage-gated, type XI, alpha subunit also known as SCN11A or Nav1.9 is a voltage-gated sodium ion channel protein which is encoded by the SCN11A gene on chromosome 3 in humans. Voltage-gated sodium channels are transmembrane glycoprotein complexes composed of a large alpha subunit with 24 transmembrane domains and one or more regulatory beta subunits. They are responsible for the generation and propagation of action potentials in neurons and muscle. This gene encodes one member of the sodium channel alpha subunit gene family, and is highly expressed in nociceptive neurons of dorsal root ganglia and trigeminal ganglia. It mediates brain-derived neurotrophic factor-evoked membrane depolarization and is a major effector of peripheral inflammatory pain hypersensitivity. Mutations in this gene have been associated with hereditary sensory and autonomic neuropathy type VII and familial episodic pain syndrome-3. Alternative splicing results in multiple transcript variants.

Molecular Weight: 250 kDa

Gene ID: 11280

Application Details

Application Notes: "Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat

Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Mouse, Rat

Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human

"1. Dib-Hajj S, Black JA, Cummins TR, Waxman SG (May 2002). "NaN/Nav1.9: a sodium channel with unique properties". Trends in Neurosciences. 25 (5): 253-9. 2. Dib-Hajj SD, Tyrrell L, Waxman SG (2002). "Structure of the sodium channel gene SCN11A: evidence for intron-to-exon conversion model and implications for gene evolution". Molecular Neurobiology. 26 (2-3):

Application Details

235-50. 3. Dib-Hajj SD, Black JA, Waxman SG (September 2015). "NaV1.9: a sodium channel linked to human pain". Nature Reviews. Neuroscience. 16 (9): 511-9.

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg 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:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.