

Scn4b Polyclonal Antibody

Catalog # AP72407

Product Information

Application WB, IHC-P
Primary Accession Q8IWT1
Reactivity Human
Host Rabbit
Clonality Polyclonal
Calculated MW 24969

Additional Information

Gene ID 6330

Other Names SCN4B; Sodium channel subunit beta-4

Dilution WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300.

ELISA: 1/10000. Not yet tested in other applications. IHC-P~~N/A

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium

azide.

Storage Conditions -20°C

Protein Information

Name SCN4B (HGNC:10592)

Function Regulatory subunit of multiple voltage-gated sodium (Nav) channels directly

mediating the depolarization of excitable membranes. Navs, also called VGSCs (voltage-gated sodium channels) or VDSCs (voltage-dependent sodium channels), operate by switching between closed and open conformations depending on the voltage difference across the membrane. In the open conformation they allow Na(+) ions to selectively pass through the pore, along their electrochemical gradient. The influx of Na+ ions provokes membrane depolarization, initiating the propagation of electrical signals throughout cells and tissues. The accessory beta subunits participate in localization and functional modulation of the Nav channels (PubMed:24297919). Modulates the activity of SCN1A/Nav1.1 (PubMed:33712547). Modulates the activity of SCN2A/Nav1.2 (PubMed:24297919).

Cellular Location Cell membrane; Single-pass type I membrane protein

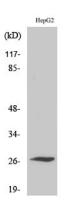
Tissue Location Expressed at a high level in dorsal root ganglia, at a lower level in brain, spinal

cord, skeletal muscle and heart Expressed in the atrium.

Background

Modulates channel gating kinetics. Causes negative shifts in the voltage dependence of activation of certain alpha sodium channels, but does not affect the voltage dependence of inactivation. Modulates the susceptibility of the sodium channel to inhibition by toxic peptides from spider, scorpion, wasp and sea anemone venom.

Images



Western Blot analysis of various cells using Scn4b Polyclonal Antibody

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