10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SCN4B Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50819

Product Information

Application	WB
Primary Accession	Q8IWT1
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	polyclonal
Calculated MW	24969

Additional Information

Gene ID	6330
Other Names	Sodium channel subunit beta-4, SCN4B
Dilution	WB~~ 1:1000
Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.
Storage Conditions	-20℃

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.

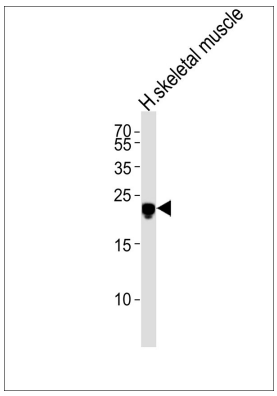
Background

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 (By similarity).

References

Yu F.H.,et al.J. Neurosci. 23:7577-7585(2003).
Taylor T.D.,et al.Nature 440:497-500(2006).
Medeiros-Domingo A.,et al.Circulation 116:134-142(2007).

Images



Western blot analysis of lysate from human skeletal muscle tissue lysate,using SCN4B Antibody. This antibody was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysate at 35ug.