

Scn1b Antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI10854

Product Information

Application	WB
Primary Accession	Q00954
Other Accession	NM_017288 , NP_058984
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Horse, Bovine
Predicted	Human, Mouse, Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	24692

Additional Information

Gene ID	29686
Other Names	Sodium channel subunit beta-1, Scn1b
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Scn1b antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Scn1b Antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Scn1b {ECO:0000312 RGD:3631}
Function	Regulatory subunit of multiple voltage-gated sodium (Nav) channels directly mediating the depolarization of excitable membranes (By similarity). 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 (By similarity). The influx of Na ⁺ ions provokes membrane depolarization, initiating the propagation of electrical signals throughout cells and tissues (By similarity). The accessory beta subunits participate in localization and functional modulation of the Nav channels (PubMed: 1375395 , PubMed: 15178439 , PubMed: 28012039 , PubMed: 8021275 , PubMed: 8282123). Modulates the

activity of SCN1A/Nav1.1, SCN2A/Nav1.2, SCN3A/Nav1.3, SCN4A/Nav1.4, SCN5A/Nav1.5, SCN8A/Nav1.6, SCN9A/Nav1.7 and SCN10A/Nav1.8 (By similarity) (PubMed:[1375395](#), PubMed:[15178439](#), PubMed:[28012039](#), PubMed:[8021275](#), PubMed:[8282123](#)).

Cellular Location

Cell membrane; Single-pass type I membrane protein {ECO:0000250|UniProtKB:Q07699} Perikaryon {ECO:0000250|UniProtKB:P97952}. Cell projection {ECO:0000250|UniProtKB:P97952}. Cell projection, axon. Note=Detected at nodes of Ranvier on the sciatic nerve.

Tissue Location

Detected in brain (at protein level) (PubMed:11470829). Expressed in brain, heart, skeletal muscle and spinal cord (PubMed:1375395, PubMed:8282123)

Images



WB Suggested Anti-Scn1b Antibody Titration: 1.0 µg/ml
Positive Control: Rat Thymus

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.