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

# Scn1b Antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI10854

## Product Information

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| **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

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| **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

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| **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 |

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| | 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'.