

# Anti-SCN2B Antibody

Catalog # AP51861

## Product Information

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|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">O60939</a> |
| Reactivity        | Human, Mouse, Rat, Dog |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 24326                  |

## Additional Information

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| Gene ID            | 6327                                                                                                                                 |
| Other Names        | Sodium channel subunit beta-2                                                                                                        |
| Target/Specificity | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human SCN2B. The exact sequence is proprietary. |
| Dilution           | WB~~ 1:1000                                                                                                                          |
| Format             | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.                            |
| Storage            | Store at -20 °C.Stable for 12 months from date of receipt                                                                            |

## Protein Information

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| Name     | SCN2B ( <a href="#">HGNC:10589</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Function | Regulatory subunit of multiple voltage-gated sodium (Nav) channels directly mediating the depolarization of excitable membranes (PubMed: <a href="#">19808477</a> , PubMed: <a href="#">23559163</a> , PubMed: <a href="#">26894959</a> , PubMed: <a href="#">30765605</a> , PubMed: <a href="#">30765606</a> , PubMed: <a href="#">35277491</a> , PubMed: <a href="#">36823201</a> ). 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 (PubMed: <a href="#">19808477</a> , PubMed: <a href="#">23559163</a> , PubMed: <a href="#">26894959</a> ). The accessory beta subunits participate in localization and functional modulation of the Nav channels (PubMed: <a href="#">19808477</a> , PubMed: <a href="#">23559163</a> ). Modulates the activity of SCN1A/Nav1.1, SCN2A/Nav1.2, SCN2A/Nav1.3, SCN5A/Nav1.5, SCN8A/Nav1.6, SCN9A/Nav1.7 and SCN10A/Nav1.8 (PubMed: <a href="#">19808477</a> , PubMed: <a href="#">23559163</a> , PubMed: <a href="#">26894959</a> , PubMed: <a href="#">30765605</a> , |

PubMed:[30765606](#), PubMed:[35277491](#), PubMed:[36823201](#)).

## Cellular Location

Cell membrane; Single-pass type I membrane protein. Cell projection, axon {ECO:0000250|UniProtKB:P54900}. Note=Clusters at the axon initial segment and node of Ranvier, the specialized neuronal subcellular domains involved in action potentials generation and propagation. {ECO:0000250|UniProtKB:P54900}

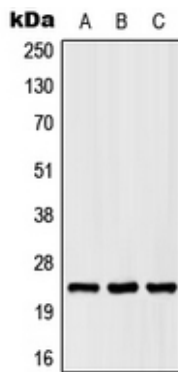
## References

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Eubanks J.,et al.NeuroReport 8:2775-2779(1997).  
Bolino A.,et al.Eur. J. Hum. Genet. 6:629-634(1998).  
Cruz J.S.,et al.Science 284:711-711(1999).  
Isom L.L.,et al.Submitted (JAN-1997) to the EMBL/GenBank/DDBJ databases.  
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).

## Images

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Western blot analysis of SCN2B expression in HEK293T (A), Raw264.7 (B), rat liver (C) whole cell lysates.  
(Predicted band size: 24 kD; Observed band size: 24 kD)

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