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PRODUCT DATASHEET

# Anti-Pan-Nav1 Sodium Channel Antibody FL650 Conjugate

## Product Details

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| **Available Variants** | 200 µL (SKU:75-407-FL650) |
| **Conjugate** | FL650 Ex: 655 nm, Em: 676 nm |
| **Isotype** | IgG1 |
| **Clone** | N419/78 |
| **Gene Name** | SCN2A NAC2 SCN2A1 SCN2A2 SCN1A NAC1 SCN1 SCN9A NENA SCN5A SCN3A KIAA1356 NAC3 SCN8A MED SCN10A SCN4A SCN11A SCN12A SNS2 |
| **Host Species** | Mouse |
| **Concentration** | Lot dependent: provided at 0.3-0.5 mg/mL |
| **Format** | Purified by Protein A chromatography |
| **Physical State** | Liquid |
| **Buffer** | PBS with 0.09% azide |
| **Production Notes** | Produced by in vitro bioreactor culture of hybridoma line followed by Protein A affinity chromatography and conjugation of purified mAb. Purified mAbs are >90% specific antibody. |
| **Applications** | ICC, IHC |
| **Species Reactivity** | Human, Mouse, Rat |
| **Immunogen** | Synthetic peptide amino acids 1501-1518 (TEEQKKYYNAMKKLGSKK, cytoplasmic loop between repeat III and IV) of human Nav1.1 (accession number P35498) |
| **Specificity** | Cross-reacts with multiple Nav1 channels |
| **Molecular Weight** | >200 kDa |

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| **Quality Control** | Each new lot of antibody is quality control tested on cells overexpressing target protein and confirmed to give the expected staining pattern. |
| **Storage** | Aliquot and store at ≤ -20°C for long term storage. For short term storage, store at 2-8°C. For maximum recovery of product, centrifuge the vial prior to removing the cap. |
| **Antibody Registry ID** | AB_2940347 |
| **UniProt ID** | P35498<br>UniProt Summary: Pore-forming subunit of Nav1.1, a voltage-gated sodium (Nav) channel that directly mediates the depolarizing phase of action potentials in 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. By regulating the excitability of neurons, ensures that they respond appropriately to synaptic inputs, maintaining the balance between excitation and inhibition in brain neural circuits. Nav1.1 plays a role in controlling the excitability and action potential propagation from somatosensory neurons, thereby contributing to the sensory perception of mechanically-induced pain. |
| **Country of Origin** | United States |
| **Shipping** | Shipped on ice packs |
| **Expiration** | 12 months from date of receipt |
| **Usage Statement** | These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans. |
| **NCBI Gene ID** | 6323 |

## Product Images




Anti-Pan-Nav1 Sodium Channel Antibody FL650 Conjugate