

Product datasheet for **TA329040**

Scn11a Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide CNGDLSSLDVAKVKVHND, corresponding to amino acid residues 1748-1765 of rat Nav1.9. ? ? ? ? ? Intracellular, C-terminus.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.05% NaN ₃ .
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	sodium voltage-gated channel alpha subunit 11
Database Link:	NP_062138 Entrez Gene 11280 Human Entrez Gene 29701 Rat O88457



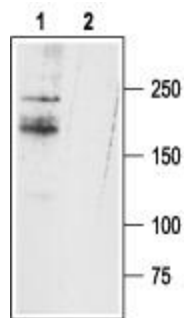
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Background:

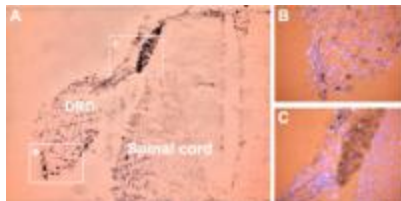
Voltage-gated Na⁺ channels (NaV) are essential for the generation of action potentials and for cell excitability. NaV channels are activated in response to depolarization and selectively allow flow of Na⁺ ions. To date, nine NaV α subunits have been cloned and named NaV1.1-1.9. Expression of the α subunit is developmentally and tissue specific. The NaV channels are classified into two groups according to their sensitivity to tetrodotoxin (TTX): TTX-sensitive and TTX-resistant channels. TTX-resistant channels have been suggested to play an important role in nociceptive transmission. Two TTX-resistant NaV channels are expressed in dorsal root ganglion (DRG) neurons, NaV1.8 and NaV1.9. The NaV1.9 channel (also called NAN or SNS2) is preferentially expressed in small-diameter DRG neurons. Recently, it was shown that BDNF activates Nav1.9 channels in the hippocampus suggesting that its expression is not restricted to DRG alone.

Synonyms:

hNaN; NaN; Nav1.9; PN5; SCN12A; SNS-2; SNS2

Product images:

Western blot analysis of rat DRG lysates: 1. Anti-Nav1.9 antibody, (1:200). 2. Anti-Nav1.9 antibody, preincubated with the control peptide antigen.



Expression of Nav1.9 in rat embryo DRG. Immunohistochemical staining of formalin frozen rat embryo dorsal root ganglion (DRG) sections with Anti-Nav1.9 antibody. A. Cells within the DRG were stained (see solid line frame enlarged in B) as well as fibers and the area of entry of dorsal root into the spinal cord (see dashed line frame enlarged in C). DAPI is used as the counterstain.