

## Anti-Na<sup>+</sup> CP type I alpha antibody



<b>Description</b>	Rabbit polyclonal to Na <sup>+</sup> CP type IValpha.
--------------------	---

<b>Model</b>	STJ94331
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human, Mouse, Rat
<b>Applications</b>	ELISA, WB
<b>Immunogen</b>	Synthesized peptide derived from human Na <sup>+</sup> CP type IValpha
<b>Immunogen Region</b>	400-480 aa, Internal
<b>Gene ID</b>	<a href="#">6329</a>
<b>Gene Symbol</b>	<a href="#">SCN4A</a>
<b>Dilution range</b>	WB 1:500-1:2000ELISA 1:10000
<b>Specificity</b>	Na <sup>+</sup> CP type IValpha Polyclonal Antibody detects endogenous levels of Na <sup>+</sup> CP type IValpha protein.
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Note</b>	For Research Use Only (RUO).
<b>Protein Name</b>	Sodium channel protein type 4 subunit alpha SkM1 Sodium channel protein skeletal muscle subunit alpha Sodium channel protein type IV subunit alpha Voltage-gated sodium channel subunit alpha Nav1.4
<b>Molecular Weight</b>	200 kDa
<b>Clonality</b>	Polyclonal

<b>Conjugation</b>	Unconjugated
<b>Isotype</b>	IgG
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Concentration</b>	1 mg/ml
<b>Storage Instruction</b>	Store at -20°C, and avoid repeat freeze-thaw cycles.
<b>Database Links</b>	<a href="#">HGNC:10591</a> <a href="#">OMIM:168300</a>
<b>Alternative Names</b>	Sodium channel protein type 4 subunit alpha SkM1 Sodium channel protein skeletal muscle subunit alpha Sodium channel protein type IV subunit alpha Voltage-gated sodium channel subunit alpha Nav1.4
<b>Function</b>	This protein mediates the voltage-dependent sodium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane, the protein forms a sodium-selective channel through which Na(+) ions may pass in accordance with their electrochemical gradient. This sodium channel may be present in both denervated and innervated skeletal muscle.
<b>Sequence and Domain Family</b>	The sequence contains 4 internal repeats, each with 5 hydrophobic segments (S1, S2, S3, S5, S6) and one positively charged segment (S4). Segments S4 are probably the voltage-sensors and are characterized by a series of positively charged amino acids at every third position.
<b>Cellular Localization</b>	Cell membrane
<b>Post-translational Modifications</b>	Phosphorylation at Ser-1328 by PKC in a highly conserved cytoplasmic loop slows inactivation of the sodium channel and reduces peak sodium currents.

---

**St John's Laboratory Ltd**

**F** +44 (0)207 681 2580  
**T** +44 (0)208 223 3081

**W** <http://www.stjohnslabs.com/>  
**E** [info@stjohnslabs.com](mailto:info@stjohnslabs.com)