

Anti-Na⁺ CP type I alpha antibody



Description	Rabbit polyclonal to Na ⁺ CP type IValpha.
Model	STJ94331
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, WB
Immunogen	Synthesized peptide derived from human Na ⁺ CP type IValpha
Immunogen Region	400-480 aa, Internal
Gene ID	6329
Gene Symbol	SCN4A
Dilution range	WB 1:500-1:2000ELISA 1:10000
Specificity	Na ⁺ CP type IValpha Polyclonal Antibody detects endogenous levels of Na ⁺ CP type IValpha protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	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
Molecular Weight	200 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:10591OMIM:168300
Alternative Names	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
Function	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.
Sequence and Domain Family	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.
Cellular Localization	Cell membrane
Post-translational Modifications	Phosphorylation at Ser-1328 by PKC in a highly conserved cytoplasmic loop slows inactivation of the sodium channel and reduces peak sodium currents.