Anti-SCN8A antibody

Description	Unconjugated Rabbit polyclonal to SCN8A

Model	STJ192950
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, WB
Gene ID	6334
Gene Symbol	SCN8A
Dilution range	WB 1:500-2000 ELISA 1:5000-20000
Specificity	SCN8A Polyclonal Antibody detects endogenous levels of protein.
Tissue Specificity	Isoform 5 is expressed in non-neuronal tissues, such as monocytes/macrophages.
Purification	SCN8A 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 8 subunit alpha Sodium channel protein type VIII subunit alpha Voltage-gated sodium channel subunit alpha Nav1.6
Molecular Weight	217 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG

Formulation	Liquid form in PBS containing 50% glycerol,and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:10596OMIM:600702
Alternative Names	Sodium channel protein type 8 subunit alpha Sodium channel protein type VIII subunit alpha Voltage-gated sodium channel subunit alpha Nav1.6
Function	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. In macrophages and melanoma cells, isoform 5 may participate in the control of podosome and invadopodia formation.
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 Isoform 5: Cytoplasmic vesicle. Some vesicles are localized adjacent to melanoma invadopodia and macrophage podosomes. Does not localize to the plasma membrane.
Post-translational Modifications	May be ubiquitinated by NEDD4L; which would promote its endocytosis. Phosphorylation at Ser-1497 by PKC in a highly conserved cytoplasmic loop slows inactivation of the sodium channel and reduces peak sodium currents.