

Anti-SCN1B antibody



Description Unconjugated Rabbit polyclonal to SCN1B

Model STJ191437

Host Rabbit

Reactivity Human, Mouse, Rat

Applications ELISA, WB

Gene ID <u>6324</u>

Gene Symbol SCN1B

Dilution range WB 1:500-2000 ELISA 1:5000-20000

Specificity SCN1B Polyclonal Antibody detects endogenous levels of protein.

Tissue Specificity The overall expression of isoforms 1 and 2 is very similar. Isoform 1 is

abundantly expressed in skeletal muscle, heart and brain. Isoform 2 is highly expressed in brain and skeletal muscle and present at a very low level in heart,

placenta, lung, liver, kidney and pancreas. In brain, isoform 2 is most

abundant in the cerebellum, followed by the cerebral cortex and occipital lobe, while isoform 1 levels are higher in the cortex compared to the cerebellum.

Isoform 2 is expressed in many regions of the brain

Purification SCN1B antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Note For Research Use Only (RUO).

Protein Name Sodium channel subunit beta-1

Molecular Weight 23 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 <u>HGNC:10586OMIM:600235</u>

Alternative Names Sodium channel subunit beta-1

Function Crucial in the assembly, expression, and functional modulation of the

heterotrimeric complex of the sodium channel. The subunit beta-1 can modulate multiple alpha subunit isoforms from brain, skeletal muscle, and heart. Its association with neurofascin may target the sodium channels to the nodes of Ranvier of developing axons and retain these channels at the nodes in mature myelinated axons. Isoform 2: Cell adhesion molecule that plays a critical role in neuronal migration and pathfinding during brain development.

Stimulates neurite outgrowth.

Cellular Localization Isoform 1: Cell membrane Isoform 2: Secreted

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