10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SCN1B Antibody (N-Term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10645A

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q07699
Other Accession	Q00954, P53788, P97952, Q17QN4, NP_950238.1
Reactivity	Human, Mouse
Predicted	Rat, Rabbit, Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	63-90

Additional Information

Other Names	Sodium channel subunit beta-1, SCN1B
Target/Specificity	This SCN1B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 63-90 amino acids from the N-terminal region of human SCN1B.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SCN1B Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Background

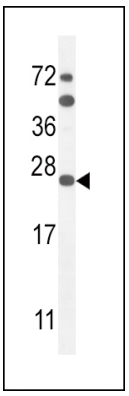
Voltage-gated sodium channels are heteromeric proteins that function in the generation and propagation of action potentials in muscle and neuronal cells. They are composed of one alpha and two beta subunits, where the alpha subunit provides channel activity and the beta-1 subunit modulates the kinetics of channel inactivation. SCN1B encodes a sodium channel beta-1 subunit. Mutations in this gene result in generalized epilepsy with febrile seizures plus, Brugada syndrome 5, and defects in cardiac conduction. Multiple

transcript variants encoding different isoforms have been found for this gene.

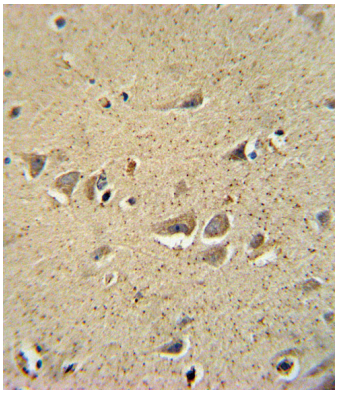
References

Grover, S., et al. Pharmacogenomics 11(7):927-941(2010)
Tan, B.H., et al. Heart Rhythm 7(6):771-778(2010)
Casini, S., et al. Cardiovasc. Res. 85(4):691-700(2010)
Ogawa, R., et al. Int J Clin Pharmacol Ther 48(2):109-119(2010)
Watanabe, H., et al. Circ Arrhythm Electrophysiol 2(3):268-275(2009)

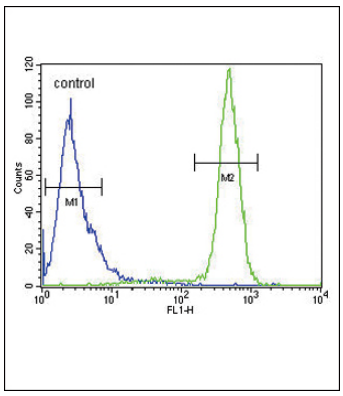
Images



SCN1B Antibody (N-Term) (Cat. #AP10645a) western blot analysis in mouse Neuro-2a cell line lysates (35ug/lane).This demonstrates the SCN1B antibody detected the SCN1B protein (arrow).



SCN1B Antibody (N-Term) (Cat. #AP10645a) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the SCN1B Antibody (N-Term) for immunohistochemistry. Clinical relevance has not been evaluated.



SCN1B Antibody (N-Term) (Cat. #AP10645a) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.