SCN1B Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SCN1B, Polyclonal Antibody
Full Product Name	SCN1B, NT (SCN1B, Sodium channel subunit beta-1) (MaxLight 750)
Product Gene Name	anti-SCN1B antibody
Product Synonym Names	SCN1B; Sodium channel subunit beta-1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human SCN1B. Species crossreactivity: mouse
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	30,440 Da
OMIM	615377
3D Structure	ModBase 3D Structure for Q07699
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 63-90 in the N-terminal region of human SCN1B. Species sequence homology: bovine, rabbit, rat
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-SCN1B antibody	Antibodies; Ion Channel
Applications Tested/Suitable for anti-SCN1B antibody	Immunohistochemistry (IHC) Paraffin, Western Blot (WB), Flow Cytometry (FC/FACS), FLISA
Application Notes for anti-SCN1B antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-SCN1B antibody	MBS6345358 is an antibody targeting SCN1B. Also known as SCN1B, NT (SCN1B, Sodium channel subunit beta-1) (MaxLight 750). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-SCN1B antibody	1. Grover, S., et al. Pharmacogenomics 11(7):927-941(2010). 2. Tan, B.H., et al. Heart Rhythm 7(6):771-778(2010). 3. Casini, S., et al. Cardiovasc. Res. 85(4):691-700(2010). 4. Ogawa, R., et al. Int J Clin Pharmacol Ther 48(2):109-119(2010). 5. Watanabe, H., et al. Circ Arrhythm Electrophysiol 2(3):268-275(2009).
Other Notes	Small volumes of anti-SCN1B antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SCN1B. It may not necessarily be applicable to this product.

NCBI GI #	39930610
NCBI GeneID	6324
NCBI Accession #	NP_950238.1
UniProt Primary Accession #	Q07699
UniProt Secondary Accession #	Q5TZZ4; Q6TN97
UniProt Related Accession #	Q07699
GenBank Nucleotide #	NM_199037.3
NCBI Official Full Name	sodium channel subunit beta-1 isoform b
NCBI Official Synonym Full Names	sodium channel, voltage gated, type I beta subunit
NCBI Official Symbol	SCN1B
NCBI Official Synonym Symbols	ATFB13; BRGDA5; GEFSP1
UniProt Protein Name	Sodium channel subunit beta-1
Protein Family	Sodium channel
UniProt Gene Name	SCN1B
UniProt Entry Name	SCN1B_HUMAN
NCBI Protein Information	sodium channel subunit beta-1; sodium channel beta-1 subunit; sodium channel, voltage-gated, type I, beta subunit
NCBI Summary for SCN1B	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. This gene 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.[provided by RefSeq, Oct 2009]

UniProt Comments for SCN1B	SCN1B: 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. Defects in SCN1B are the cause of generalized epilepsy with febrile seizures plus type 1 (GEFS+1). Generalized epilepsy with febrile seizures-plus refers to a rare autosomal dominant, familial condition with incomplete penetrance and large intrafamilial variability. Patients display febrile seizures persisting sometimes beyond the age of 6 years and/or a variety of afebrile seizure types. GEFS+ is a disease combining febrile seizures, generalized seizures often precipitated by fever at age 6 years or more, and partial seizures, with a variable degree of severity. Defects in SCN1B are the cause of Brugada syndrome type 5 (BRGDA5). A tachyarrhythmia characterized by right bundle branch block and ST segment elevation on an electrocardiogram (ECG). It can cause the ventricles to beat so fast that the blood is prevented from circulating efficiently in the body. When this situation occurs (called ventricular fibrillation), the individual will faint and may die in a few minutes if the heart is not reset. Belongs to the sodium channel auxiliary subunit SCN1B (TC 8.A.17) family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Channel, sodium Chromosomal Location of Human Ortholog: 19q13.1 Cellular Component: voltage-gated sodium channel complex; T-tubule; extracellular region Molecular Function: sodium channel inhibitor activity; sodium channel regulator activity; voltage-gated sodium channel activity Biological Process: synaptic transmission; membrane depolarization; axon guidance; action potential propagation; corticospinal neuron axon guidance; cell adhesion; locomotion; response to pyrethroid; cardiac muscle contraction Disease: Generalized Epilepsy With Febrile Seizures Plus, Type 1; Atrial Fibrillation, Familial, 13; Brugada Syndrome 5
Research Articles on SCN1B	**1.** High SCN1B expression is associated with increased tumour growth and metastasis in breast cancer.
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