Product Information Sheet

Polyclonal Anti- Sodium channel, voltage-gated, beta 1, **SCN1B**

Catalogue No. PA1244

Lot No. 09G01

Ig type rabbit IgG

Size 100µg/vial

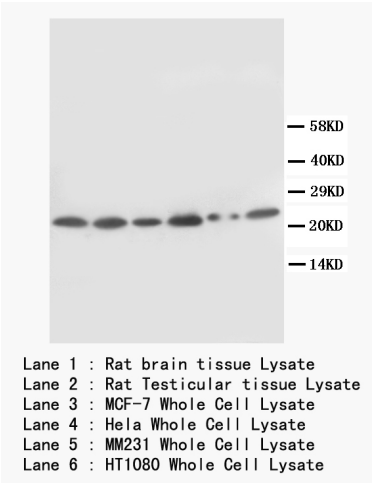
Specificity

Human, rat, mouse.

No cross reactivity with other proteins.

Recommended application

Western blot



Immunogen

A synthetic peptide corresponding to a sequence at the N-terminal of human SCN1B, identical to the related rat and mouse sequence.

Purity

Immunogen affinity purified.

Application

	Concen-tration	Tested Species	Concluded Species	Antigen Retrieval
WB	1µg/ml	Hu, Rat	Ms	-
IHC-P	-	-	-	-
IHC-F	-	-	-	-
ICC	-	-	-	-

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na_2HPO_4, 0.05mg Thimerosal, 0.05mg NaN_3.

Reconstitution

0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage

At -20˚C for one year. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for longer time.

To reorder contact us at:

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BACKGROUND

Voltage-gated sodium (Na+) channels are essential for the generation and propagation of action potentials in striated muscle and neuronal tissues. The complete coding region of Sodium channel, voltage-gated, beta 1(SCN1B) is found in approximately 9.0 kb of genomic DNA and consists of five exons (72 to 749 bp) and four introns (90 bp to 5.5 kb). It is mapped to 19q13.1 and can act as a candidate gene for hereditary disorders affecting membrane excitability.[1] Sodium channel beta1 subunits play important roles in the regulation of sodium channel density and localization and are involved in axo-glial communication at nodes of Ranvier.[2]

REFERENCE

1. Makita, N.; Sloan-Brown, K.; Weghuis, D. O.; Ropers, H. H.; George, A. L., Jr. : Genomic organization and chromosomal assignment of the human voltage-gated Na(+) channel beta-1 subunit gene (SCN1B). *Genomics* 23: 628-634, 1994.
2. Chen, C.; Westenbroek, R. E.; Xu, X.; Edwards, C. A.; Sorenson, D. R.; Chen, Y.; McEwen, D. P.; O'Malley, H. A.; Bharucha, V.; Meadows, L. S.; Knudsen, G. A.; Vilaythong, A.; Noebels, J. L.; Saunders, T. L.; Scheuer, T.; Shrager, P.; Catterall, W. A.; Isom, L. L. : Mice lacking sodium channel beta-1 subunits display defects in neuronal excitability, sodium channel expression, and nodal architecture. *J. Neurosci.* 24: 4030-4042, 2004.