

# ARG45158 anti-SCN4B antibody

Package: 50 μg Store at: -20°C

# Summary

Product Description	Rabbit Polyclonal antibody recognizes SCN4B
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Target Name	SCN4B
Species	Human
Immunogen	Synthetic peptide corresponding to middle region of human SCN4B.
Conjugation	Un-conjugated
Alternate Names	LQT10; Sodium Channel, Voltage-Gated, Type IV, Beta Subunit; Sodium Channel Subunit Beta-4; Navbeta4; ATFB17

# **Application Instructions**

Application table	Application	Dilution
	FACS	1 - 3 μg/10^6 cells
	IHC-P	0.5-1 μg/ml
	WB	0.1-0.5 μg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	28 kDa	

# Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na2HPO4, 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

## **Bioinformation**

Gene Symbol	SCN4B
Gene Full Name	sodium voltage-gated channel beta subunit 4
Background	The protein encoded by this gene is one of several sodium channel beta subunits. These subunits interact with voltage-gated alpha subunits to change sodium channel kinetics. The encoded transmembrane protein forms interchain disulfide bonds with SCN2A. Defects in this gene are a cause of long QT syndrome type 10 (LQT10). Three protein-coding and one non-coding transcript variant have been found for this gene.[provided by RefSeq, Mar 2009]
Function	Regulatory subunit of multiple voltage-gated sodium (Nav) channels directly mediating the depolarization of excitable membranes. Navs, also called VGSCs (voltage-gated sodium channels) or VDSCs (voltage-dependent sodium channels), operate by switching between closed and open conformations depending on the voltage difference across the membrane. In the open conformation they allow Na+ ions to selectively pass through the pore, along their electrochemical gradient. The influx of Na+ ions provokes membrane depolarization, initiating the propagation of electrical signals throughout cells and tissues. The accessory beta subunits participate in localization and functional modulation of the Nav channels. [UniProt]
Calculated Mw	25 kDa
PTM	Disulfide bond; Glycoprotein. [UniProt]
Cellular Localization	Cell membrane . [UniProt]

## Images



### ARG45158 anti-SCN4B antibody IHC-P image

Immunohistochemistry: Human renal cancer stained with ARG45158 anti-SCN4B antibody at 1  $\mu g/ml$  dilution.



#### ARG45158 anti-SCN4B antibody WB image

Western blot: Human placenta, U-87MG, U2OS, HEK293, SHG-44, K562, and HL-60 stained with ARG45158 anti-SCN4B antibody at 0.5  $\mu g/ml$  dilution.





# -72 -55 -43 -34 -26

#### ARG45158 anti-SCN4B antibody FACS image

Flow Cytometry: U20S stained with ARG45158 anti-SCN4B antibody at 1  $\mu g/10^{4}$  cells dilution.

#### ARG45158 anti-SCN4B antibody IHC-P image

Immunohistochemistry: Rat spleen stained with ARG45158 anti-SCN4B antibody at 1  $\mu\text{g/ml}$  dilution.

## ARG45158 anti-SCN4B antibody WB image

Western blot: Rat brain, rat heart, rat spleen, and rat kidney stained with ARG45158 anti-SCN4B antibody at 0.5  $\mu g/ml$  dilution.



#### ARG45158 anti-SCN4B antibody WB image

Western blot: Mouse brain, mouse heart, mouse spleen, mouse kidney, and mouse Neuro-2a stained with ARG45158 anti-SCN4B antibody at 0.5  $\mu g/ml$  dilution.



## ARG45158 anti-SCN4B antibody WB image

Western blot: COS-7 stained with ARG45158 anti-SCN4B antibody at 0.5  $\mu\text{g}/\text{ml}$  dilution.