

For Research Use Only

# SCN4B Recombinant antibody

Catalog Number: 83027-4-RR



## Basic Information

<b>Catalog Number:</b> 83027-4-RR	<b>GenBank Accession Number:</b> NM_174934.3	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6330	<b>CloneNo.:</b> 230297B11
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q8IWT1	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:500-1:2000
<b>Isotype:</b> IgG	<b>Full Name:</b> sodium channel, voltage-gated, type IV, beta	
<b>Immunogen Catalog Number:</b> AG34123	<b>Calculated MW:</b> 25 kDa	
	<b>Observed MW:</b> 37 kDa	

## Applications

**Tested Applications:**  
WB, IHC, FC (Intra), ELISA

**Species Specificity:**  
human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** U-87 MG cells, HeLa cells, Ramos cells, C6 cells, mouse brain tissue, human heart tissue

**IHC :** rat dorsal root ganglion tissue,

## Background Information

Mammalian sodium channels are heterotrimers, composed of a central, pore-forming alpha subunit and two auxiliary beta subunits (PMID: 11486343). SCN4B (sodium channel subunit beta-4) is one of several sodium channel beta subunits, which modulate channel gating kinetics. SCN4B has an N-terminal signal peptide, a large extracellular domain predicted to form an Ig-like fold, a single transmembrane alpha helix, and a short cytoplasmic C terminus. Defects in SCN4B gene are a cause of long QT syndrome type 10 (LQT10).

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

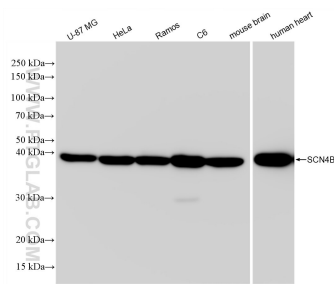
**Aliquoting is unnecessary for -20°C storage**

**\*\*\* 20ul sizes contain 0.1% BSA**

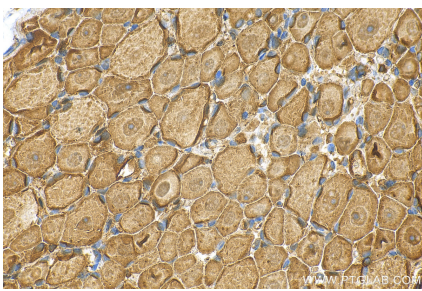
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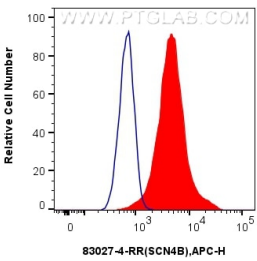
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83027-4-RR (SCN4B antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat dorsal root ganglion tissue slide using 83027-4-RR (SCN4B antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug Anti-Human SCN4B (83027-4-RR, Clone:230297B11) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).