

SCN4B Recombinant antibody

Catalog Number: 83027-4-RR

Basic Information

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

For technical support and original validation data for this product please contact:

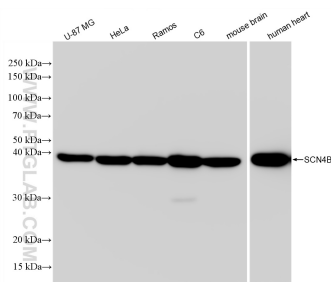
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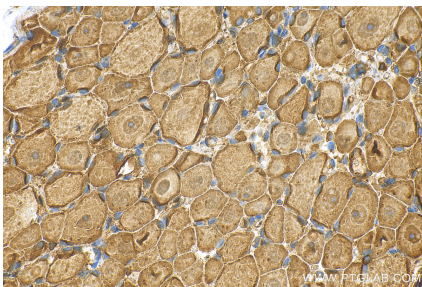
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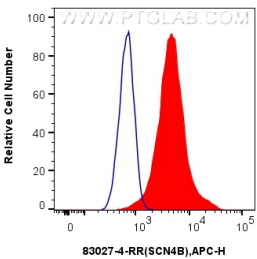
Selected Validation Data



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).



1x10⁶ 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).