

# SCN4B Polyclonal antibody

Catalog Number: 55438-1-AP

## Basic Information

**Catalog Number:**

55438-1-AP

**Size:**

1000 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_174934

**GeneID (NCBI):**

6330

**UNIPROT ID:**

Q8IWT1

**Full Name:**

sodium channel, voltage-gated, type IV, beta

**Calculated MW:**

25 kDa

**Observed MW:**

28 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:1000

IHC 1:20-1:200

## Applications

**Tested Applications:**

IHC, WB, ELISA

**Species Specificity:**

human, mouse

**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 :** mouse heart tissue, mouse brain tissue

**IHC :** human skeletal muscle 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:**

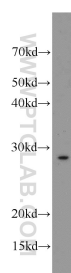
Store at -20°C.

**Storage Buffer:**

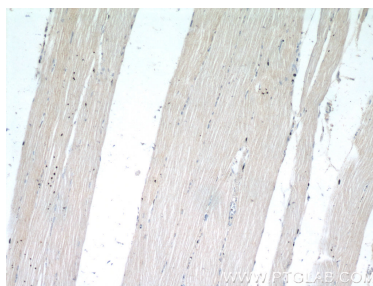
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

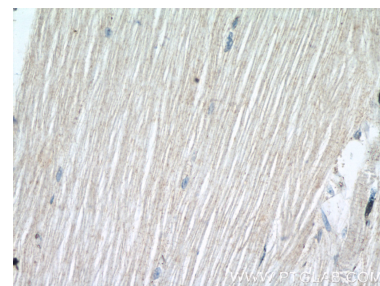
## Selected Validation Data



mouse heart tissue were subjected to SDS PAGE followed by western blot with 55438-1-AP (SCN4B antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue slide using 55438-1-AP (SCN4B Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue slide using 55438-1-AP (SCN4B Antibody) at dilution of 1:50 (under 40x lens).