



Scn4b Polyclonal Antibody

Catalog No	YP-Ab-16498
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;IHC;IF;ELISA
Gene Name	SCN4B
Immunogen	The antiserum was produced against synthesized peptide derived from human SCN4B. AA range:61-110
Specificity	Scn4b Polyclonal Antibody detects endogenous levels of Scn4b protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/10000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Sodium channel subunit beta-4;Sodium channel subunit beta 4;Scn4b
Observed Band	27kD
Calculated Molecular Weight	27kD
Cell Pathway	Cell membrane ; Single-pass type I membrane protein .
Tissue Specificity	Expressed at a high level in dorsal root ganglia, at a lower level in brain, spinal cord, skeletal muscle and heart. Expressed in the atrium.
Function	disease:Defects in SCN4B are the cause of long QT syndrome type 10 (LQT10) [MIM:611819]. Long QT syndromes are heart disorders characterized by a prolonged QT interval on the ECG and polymorphic ventricular arrhythmias. They cause syncope and sudden death in response to exercise or emotional stress. They can present with a sentinel event of sudden cardiac death in infancy.,function:Modulates channel gating kinetics. Causes negative shifts in the voltage dependence of activation of certain alpha sodium channels, but does not affect the voltage dependence of inactivation.,PTM:Contains a number of interchain disulfide bonds with SCN2A.,similarity:Contains 1 Ig-like C2-type (immunoglobulin-like) domain.,subunit:The voltage-sensitive sodium channel consists of an ion conducting pore forming alpha-subunit regulated by one or



more beta-1, beta-2, beta-3 and/or beta-4 subunits. Beta-1 and beta-

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],

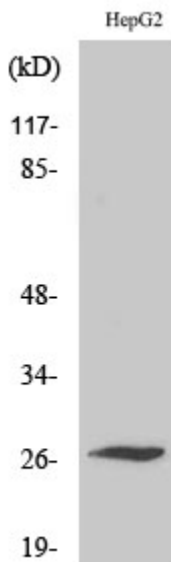
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

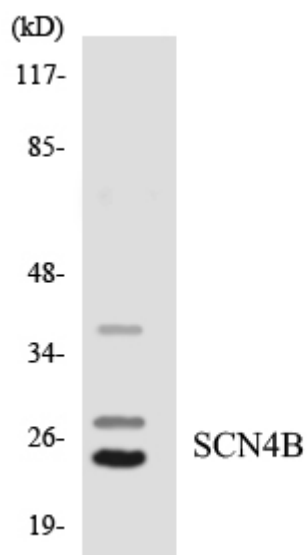
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images

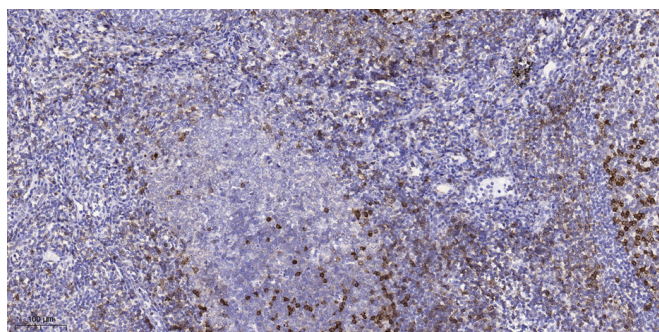


Western Blot analysis of various cells using Scn4b Polyclonal Antibody

Western blot analysis of lysates from HepG2 and Jurkat cells, using SCN4B Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HeLa cells using SCN4B antibody.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).