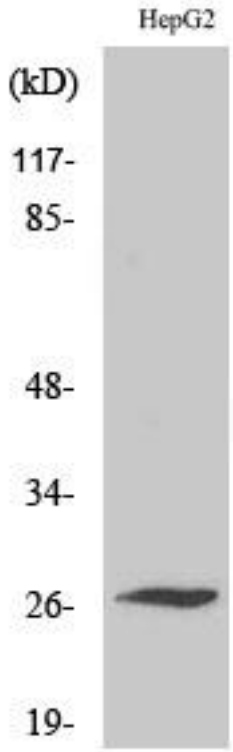
Scn4b Monoclonal Antibody

Catalog No	BYmab-16498
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	SCN4B
Protein Name	Sodium channel subunit beta-4
Immunogen	The antiserum was produced against synthesized peptide derived from human SCN4B. AA range:61-110
Specificity	Scn4b Monoclonal Antibody detects endogenous levels of Scn4b protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	SCN4B; Sodium channel subunit beta-4
Observed Band	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 excercise 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 Monoclonal Antibody