For Research Use Only

SCN5A Monoclonal antibody

Catalog Number:68273-1-Ig

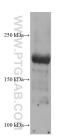


Basic Information	Catalog Number: 68273-1-lg	GenBank Accession Number: BC 140813	Purification Method: Protein G purification	
	Size: 150ul , Concentration: 1000 µg/ml by Nanodrop; Source: Mouse Isotype: IgG1 Immunogen Catalog Number: AG19275	GeneID (NCBI): 6331 UNIPROT ID: Q14524 Full Name: sodium channel, voltage-gated, type V, alpha subunit	CloneNo.: 1C2B3 Recommended Dilutions: WB 1:2000-1:10000 IHC 1:50-1:500	
				Calculated MW: 2016 aa, 227 kDa
		Observed MW: 227 kDa		
		Applications	Tested Applications: WB, IHC, FC (Intra), ELISA	Positive
Species Specificity: human, mouse, rat, rabbit	WB : rat heart tissue, rabbit heart tissue IHC : mouse skeletal muscle tissue,			
Note-IHC: suggested antigen r TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	vely, antigen			
Background Information	Voltage-gated sodium channels are responsible for initiation and propagation of action potentials in the membranes of neurons and most electrically excitable cells (PMID: 10798388). These channels are composed of a large alpha subunit that forms the ion conduction pore and auxiliary beta subunits (PMID: 11486343). The alpha subunits form a gene family with at least 10 members. Nav1.5, encoded by the SCN5A gene in humans, is a pore forming alpha subunit of voltage-gated sodium channels. Nav1.5 is the principal Na+ channel isoform expressed in cardiomyocytes. Mutations in SCN5A gene have been linked to many cardiac electrical disorders, including the congenital and acquired long QT syndrome, Brugada syndrome, conduction slowing, sick sinus syndrome, atrial fibrillation, and dilated cardiomyopathy (PMID: 23123192).			
Storage	Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50	•		
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20 $^{\circ}$ C s	torage		

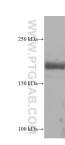
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

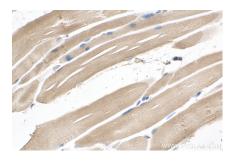
Selected Validation Data



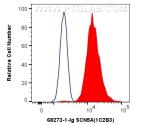
rabbit heart tissue were subjected to SDS PAGE followed by western blot with 68273-1-1g (SCN5A antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



rat heart tissue were subjected to SDS PAGE followed by western blot with 68273-1-Ig (SCN5A antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded mouse skeletal muscle tissue slide using 68273-1-1g (SCN5A antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human SCNSA (68273-1-Ig, Clone:1C2B3) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG(I Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).