#18339

Nav1.1 (D8X1Y) Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:		
VV, 1F		Endogenous	230	Rabbit Igg	#F35496	0323		
Product Usage		Application			Dilution			
Information		Western Blotting			1:1000			
		Immunoprecipitation			1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sensitivity		Nav1.1 (D8X1Y) Rabbit mAb recognizes endogenous levels of total Nav1.1 protein.						
Source / Purification Monoresid		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg471 of human Nav1.1 protein.						
Background	ground Voltage gated sodium channels are composed of a large alpha subunit and auxiliary beta subuni alpha subunit has 4 homologous domains, with each domain containing 6 transmembrane segments function as the voltage sensor and sodium permeable pore. Upon change of membrane potential, the sodium channel is activated, which allows sodium ions to flow through When associated with beta subunits or other accessory proteins, the alpha subunit is regulated a level of cell surface expression, kinetics, and voltage dependence (3,4).				beta subunits. The brane segments. hange of ow through (1,2). regulated at the			
		specificity and biophys propagation of action p are mainly expressed in subunits have been ide cardiomyopathy (review Nav1.1 is a type I alpha the Nav1.1 encoding g including generalized e	re are 9 mammalian alpha subunits, named NaV1.1-NaV1.9 (5). These alpha subunits differ in tissue cificity and biophysical functions (6,7). Seven of these subunits are essential for the initiation and pagation of action potentials in the central and peripheral nervous system while Nav1.4 and Nav1.5 mainly expressed in skeletal muscle and cardiac muscle (8,9). Mutations in these alpha channel units have been identified in patients with epilepsy, seizure, ataxia, sensitivity to pain, and diomyopathy (reviewed in 10). '1.1 is a type I alpha subunit and is mainly expressed in brain and peripheral nerves. Mutations in Nav1.1 encoding gene, <i>SCN1A</i> , are associated with a wide spectrum of childhood epilepsies, uding generalized epilepsy with febrile seizures plus (11) and Dravet syndrome (12,13)					
Species Reactiv	vity	Species reactivity is det	termined by testing	g in at least one approve	d application (e.g., v	western blot).		
Western Blot B	uffer	IMPORTANT: For weste dry milk, 1X TBS, 0.1%	MPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat Iry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Ke	ey .	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivit	у Кеу	H: Human M: Mouse R	:Rat					
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