

Nav1.7 Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

877-678-TECH (8324) Support:

info@cellsignal.com cellsignal.com Web:

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, IP	Reactivity: M R	Sensitivity: Endogenous	MW (kDa): 230-250	Source/Isotype: Rabbit	UniProt ID: #Q15858	Entrez-Gene Id: 6335
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Nav1.7 Antibody recognizes endogenous levels of total Nav1.7 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Nav1.7 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		alpha subunit has 4 ho These segments funct membrane potential, When associated with level of cell surface ex There are 9 mammalia specificity and biophys propagation of action are mainly expressed subunits have been id cardiomyopathy (revie The Nav1.7 alpha subuessential for acute, inf corresponding SCN9A indifference to pain, a GEFSP7 form of gener	omologous domain ion as the voltage state sodium channe beta subunits or or pression, kinetics, as an alpha subunits, resical functions (6,7) potentials in the certain skeletal muscle at lentified in patients ewed in 10). Unit (Nav1.7, SCN9/flammatory, and near gene are associated and paroxysmal extralized epilepsy with	posed of a large alpha sus, with each domain corsensor and sodium pernal is activated, which allother accessory proteins, and voltage dependence amed Nav1.1-Nav1.9 (5). Seven of these subunitentral and peripheral neighbor and cardiac muscle (8,9), with epilepsy, seizure, and peripheral roll uropathic pain perceptical with primary erythermene pain disorder (13-1) febrile seizures, and areptic encephalopathy (1	ntaining 6 transment and the alpha subunit (a,4,4). These alpha subunit (a,4,4). These alpha subust are essential for the alpha subust are essential for the alpha subust are essential for the alpha subust and sensitivity to the in nociception signon (11,12). Mutation algia, autosomal responding to the sensitivity in the sensitivity to the in nociception signon (11,12). Mutation (algia, autosomal responding to the sensitivity in the sensitivity	nbrane segments. change of flow through (1,2). is regulated at the units differ in tissue the initiation and Nav1.4 and Nav1.5 e alpha channel pain, and gnaling and is ns in the recessive congenital TN9A cause the
Background References		1. Catterall, W.A. (2000) <i>Neuron</i> 26, 13-25. 2. Yu, F.H. and Catterall, W.A. (2003) <i>Genome Biol</i> 4, 207. 3. Isom, L.L. et al. (1994) <i>Neuron</i> 12, 1183-94. 4. Yu, F.H. et al. (2003) <i>J Neurosci</i> 23, 7577-85. 5. Goldin, A.L. et al. (2000) <i>Neuron</i> 28, 365-8. 6. Plummer, N.W. and Meisler, M.H. (1999) <i>Genomics</i> 57, 323-31. 7. Goldin, A.L. (2001) <i>Annu Rev Physiol</i> 63, 871-94. 8. George, A.L. et al. (1992) <i>Ann Neurol</i> 31, 131-7. 9. Ou, Y. et al. (2002) <i>Neurogastroenterol Motil</i> 14, 477-86. 10. Meisler, M.H. and Kearney, J.A. (2005) <i>J Clin Invest</i> 115, 2010-7. 11. Minett, M.S. et al. (2012) <i>Nat Commun</i> 3, 791. 12. Minett, M.S. et al. (2014) <i>PLoS One</i> 9, e104458. 13. Yang, Y. et al. (2004) <i>J Med Genet</i> 41, 171-4. 14. Cox, J.J. et al. (2010) <i>Hum Mutat</i> 31, E1670-86. 15. Fertleman, C.R. et al. (2006) <i>Neuron</i> 52, 767-74. 16. Mulley, J.C. et al. (2013) <i>Epilepsia</i> 54, e122-6.				

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key M: Mouse R: Rat

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