e at -20C	Nav1.7 (D5L1J) Rabbit mAb			
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
89		Support:	877-678-TECH (8324)	
<i>‡</i> 78889		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane   Danvers	Massachusetts 01923 USA	

Eor Research Lise Only	/ Not for Lise i	in Diagnostic Procedures.
FUI RESEAICII USE UIII	, NULIUI USE I	in Diagnostic Frocedures.

Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 250	Source/Isotype: Rabbit IgG	UniProt ID: #Q15858	Entrez-Gene Id: 6335
Product Usage Information	We	<b>plication</b> estern Blotting munoprecipitation			<b>Dilution</b> 1:1000 1:50	
Storage				7.5), 150 mM NaCl, 100 o not aliquot the antibody		erol and less than
Specificity / Sensitivity		Nav1.7 (D5L1J) Rabbit mAb recognizes endogenous levels of total Nav1.7 protein. This antibody also detects 50, 45, and 25 kDa bands of unknown origin.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Nav1.7 protein.				
Background	alph The: pote asso surfa The spec prop main have (revi The esse SCN pain	a subunit has 4 hon se segments functio ential, the sodium ch ociated with beta sul ace expression, kine re are 9 mammalian cificity and biophysic pagation of action po nly expressed in ske e been identified in p iewed in 10). Nav1.7 alpha subur ential for acute, infla V9A gene are associ n, and paroxysmal ex	nologous domair on as the voltage annel is activate bunits or other ac etics, and voltage a alpha subunits, cal functions (6,7 otentials in the ce eletal muscle and oatients with epile nit (Nav1.7, SCN mmatory, and ne iated with primar xtreme pain diso	named Nav1.1-Nav1.9 ). Seven of these subun entral and peripheral ner l cardiac muscle (8,9). M epsy, seizure, ataxia, se 9A) plays an important f europathic pain perception y erythermalgia, autoso rder (13-15). Mutations i	ntaining 6 transmembr meable pore. Upon ch ions to flow through (1 lpha subunit is regulat (5). These alpha subu its are essential for the vous system while Na futations in these alph nsitivity to pain, and c role in nociception sign on (11,12). Mutations i mal recessive congeni in <i>SCN9A</i> cause the G	rane segments. ange of membrane .,2). When ed at the level of cell nits differ in tissue e initiation and v1.4 and Nav1.5 are the channel subunits ardiomyopathy naling and is in the corresponding ital indifference to GEFSP7 form of
Background Refere	form <b>nces</b> 1. C. 2. Yu 3. Is 4. Yu 5. G 6. Pl 7. G 8. G 9. O 10. M 11. M 12. M 13. Ya 14. C 15. Fe	n of pediatric epilepti atterall, W.A. (2000) u, F.H. and Catterall om, L.L. et al. (1994) u, F.H. et al. (2003) . oldin, A.L. et al. (200 lummer, N.W. and M oldin, A.L. (2001) <i>Ar</i> eorge, A.L. et al. (19 u, Y. et al. (2002) <i>Ne</i>	ic encephalopath Neuron 26, 13-2 , W.A. (2003) Ge Neuron 12, 11: J Neurosci 23, 7 00) Neuron 28, 3 Neisler, M.H. (199 nu Rev Physiol 992) Ann Neurol eurogastroenterco arney, J.A. (2005) 12) Nat Commun 14) PLOS One 9 J Med Genet 41 Hum Mutat 31, 1 (2006) Neuron 5	<ul> <li>25.</li> <li>25.</li> <li>25.</li> <li>25.</li> <li>26.</li> <li>25.</li> <li>25.</li> <li>25.</li> <li>25.</li> <li>25.</li> <li>26.</li> <li>26.</li> <li>27.</li> <li>26.</li> <li>27.</li> <li>27.</li> <li>28.</li> <li>29.</li> <li>29.</li> <li>20.</li> <li>20.</li></ul>	1.	syndrome, a severe

1/1/24, 1:45 PM	Nav1.7 (D5L1J) Rabbit mAb (#78889) Datasheet Without Images Cell Signaling Technology			
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).			
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.			
Applications Key	WB: Western Blotting IP: Immunoprecipitation			
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected			
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.			
Limited Uses	Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.			
	Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.			