KCNE1 Antibody Cell Signaling 0rders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com 3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID: #P15382	Entrez-Gene Id:
Product Usage Information		Application Western Blotting Immunoprecipitation		Rabbit	Dilution 1:1000 1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		KCNE1 Antibody detects endogenous levels of total KCNE1 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp76 of human KCNE1 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Voltage-gated potassium channels play a variety of important roles in human health and disease (1,2). KCNE1, also known as MinK, belongs to a family of small transmembrane proteins (KCNE1, 2, 3, 4, and KCNE1L) that modulate the activity of several voltage-gated K ⁺ channels (3-5). KCNE1 functions as the modulatory β -subunit of the pore-forming α -subunit KCNQ1, and alters several biophysical properties of KCNQ1 channels (6,7). Research studies have shown that several inherited mutations in KCNE1 result in long QT syndrome (8-10) and deafness (11).				
Background References		 Jespersen, T. et al. (2005) <i>Physiology (Bethesda)</i> 20, 408-16. Robbins, J. (2001) <i>Pharmacol Ther</i> 90, 1-19. Takumi, T. et al. (1988) <i>Science</i> 242, 1042-5. Abbott, G.W. and Goldstein, S.A. (2001) <i>Mol Interv</i> 1, 95-107. McCrossan, Z.A. and Abbott, G.W. (2004) <i>Neuropharmacology</i> 47, 787-821. Barhanin, J. et al. (1996) <i>Nature</i> 384, 78-80. Sanguinetti, M.C. et al. (1996) <i>Nature</i> 384, 80-3. Splawski, I. et al. (1997) <i>Nat Genet</i> 17, 338-40. Abbott, G.W. and Goldstein, S.A. (2002) <i>FASEB</i> J 16, 390-400. Tian, C. et al. (2007) <i>Biochemistry</i> 46, 11459-72. Peters, T.A. et al. (2004) <i>Pediatr Nephrol</i> 19, 1194-201. 				
Species Reactiv	vity	Species reactivity is det	termined by testin <u>c</u>	in at least one approve	d application (e.g., v	vestern blot).
Western Blot B	uffer	IMPORTANT: For weste TBS, 0.1% Tween® 20 a	rn blots, incubate r at 4°C with gentle s	nembrane with diluted haking, overnight.	primary antibody in	5% w/v BSA, 1X
Applications Ke	ey	W: Western Blotting IP	: Immunoprecipita	tion		
Cross-Reactivit	у Кеу	H: Human M: Mouse R	: Rat Mk: Monkey			
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