1/1/24, 7:09 AM Revision 1

e at -20C	Kv7.2 (D9L5S) Rabbit mAb	HE .	Cell T E C	Sigr	nalir L o g	ng Y®
Store		Order	s: 0	877-616- orders@ce	CELL (2 Ilsignal	2355) .com
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FUI Research	Use On	y. INOL IOI	USe III	Diagnostic	Procedures.

Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 95	Source/Isotype: Rabbit IgG	UniProt ID: #O43526	Entrez-Gene Id: 3785	
Product Usage	ļ	Application			Dilution		
iniormation		Western Blotting			1:1000		
	I	mmunoprecipitation			1:50		
Storage	StorageSupplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and le 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.					rol and less than	
Specificity / Sensitivity		Kv7.2 (D9L5S) Rabbit mAb recognizes endogenous levels of total Kv7.2 protein. This antibody does not cross-react with Kv7.3 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human Kv7.2 protein.					
Background	TI to (1 cc m th in pl se fo	he voltage gated potass o form an M-channel tha L). This heteromeric cha onductance that determinaniny seen within the ce he human cortex and hip h Kv7.2 to influence exit lasma membrane (5). M eizures-1 (BFNS1), an a ollowing birth (6,7).	t is involved in s nnel generates ines the neuron entral nervous sy opocampus (4). of the channel p lutations in the c autosomal domin	7.2 (KCNQ2) associates synaptic input response the M-current, a slowly a al excitability (2,3). Expr ystem, with both Kv7.2 a The calcium-binding pro protein from the endopla corresponding <i>KCNQ2</i> g nant form of epilepsy cha	s with its family membe and sub-threshold exci activating and deactiva ession of these two M- und Kv7.3 expressed pr tein calmodulin binds t smic reticulum and tran ene cause benign fam aracterized by seizure	er Kv7.3 (KCNQ3) tability of neurons ting potassium channel proteins is ost-synaptically in wo separate sites nslocation to the ilial neonatal clusters closely	
Background References		Stewart, A.P. et al. (201 Wang, H.S. et al. (1998 Smith, J.S. et al. (2001 Cooper, E.C. et al. (2001 Alaimo, A. et al. (2013) Miraglia del Giudice, E. Dedek, K. et al. (2001)	12) J Biol Chem 3) Science 282,) J Neurosci 21 00) Proc Natl Ac J Cell Sci 126, . et al. (2000) E Proc Natl Acad	287, 11870-7. 1890-3. , 1096-103. cad Sci U S A 97, 4914-9 244-53. ur J Hum Genet 8, 994- ⁻ Sci U S A 98, 12272-7.	9. 7.		
Species Reactivity	Sp	ecies reactivity is deterr	mined by testing	g in at least one approve	d application (e.g., we	stern blot).	
Western Blot Buffe	r IM 0.1	PORTANT: For western 1% Tween® 20 at 4°C w	blots, incubate ⁄ith gentle shaki	bate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, shaking, overnight.			
Applications Key	w	B: Western Blotting IP:	Immunoprecipi	tation			
Cross-Reactivity K	ey H: X: GF	human M: mouse R: ra Xenopus Z: zebrafish E P: Guinea Pig Rab: rabb	t Hm: hamster 3: bovine Dg: do bit All: all specie	amster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse Il species expected			
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