MARK2 Antibody		Cell Signaling	
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com	
	Support:	877-678-TECH (8324)	
#9118 18	Web:	info@cellsignal.com cellsignal.com	
6#	3 Trask Lane Danvers Massac	husetts 01923 USA	
For Research Use Only. Not for Use in Diagnostic Procedures.			

Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 78, 82	Source/Isotype: Rabbit	UniProt ID: #Q7KZI7	Entrez-Gene Id: 2011	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
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		MARK2 Antibody detects endogenous levels of total MARK2 protein. No cross reactivity is observed with other MARK family members.					
Species predicted to react based on 100% sequence homology		Monkey					
Source / Purific	ation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys430 of human MARK2. Antibodies were purified by protein A and peptide affinity chromatography.					
Background		cell polarity/differentia (MAP/microtubule affi identified based on the MAP2 and MAP4 (2-6). causing dissociation o of tau, phosphorylatio observed in Alzheimer morphological change and the closely related MARK2 (4), also terme microtuble dynamics, spliced isoforms that a microtubule associate	ation, neurite outgr nity-regulating kina eir ability to phospl MARK proteins pho f MAPs from microf n has been hypoth 's disease. Overexp s and cell death (4) I AMP-kinases with d as Par-1 (8) and E and neurite outgro are co-expressed in d protein (MAPs), ta IARK2 plays an esso	the stability of microtul owth, cell division and c ases) family (MARK1-4) o norylate microtubule-as osphorylate MAPs within tubules and increased m esized to contribute to t oression of MARK leads to the tumor suppressor in their T-loops, leading MK1 (9), contributes to wth. The MARK2 gene e various cell lines (10). S au, histone deacetylases ential role in immune sy ory (15).	organelle trafficking of serine/threonine l sociated proteins (N n their microtubule hicrotubule dynamic the formation of new to hyperphosphoryl kinase LKB1 phosp to increased activit cellular polarity, cel ncodes at least two ubstrates of MARK2 s (11), and Rab11-FI	(1). The MARK kinases was MAPs) including tau, binding domains, cs (2-4). In the case arofibrillary tangles ation of MAPs, horylates MARK y (7). I cycle progression, alternatively c include P2 (12). Knockout	
Background Re	ferences	11. Dequiedt, F. et al. (12. Ducharme, N.A. et 13. Hurov, J.B. et al. (20	(1996) J Biol Chem 2 95) J Biol Chem 270 97) Cell 89, 297-308 Neoplasia 3, 4-9. 004) J Biol Chem 279 004) EMBO J 23, 83 ues, K.J. (1995) Cell 3 Mamm. Genomo avarro, E. (1998) Cy 2006) Mol. Cell. Biol 01) Mol. Cell. Biol. 001) Mol. Cell. Biol. 007) Proc. Natl. Aca	271, 10834-43. 9, 7679-88. 3. 3-43. 81, 611-620. e 4, 401-403. <i>togenet. Cell Genet.</i> 81, <i>I.</i> 26, 7086-7102. . <i>Cell</i> 17, 3625-3637. 21, 3206-3219. <i>d. Sci. USA</i> 104, 5680-56			

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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.	
Applications Key	W: Western Blotting	
Cross-Reactivity Key	H: Human M: Mouse R: Rat	
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