BRSK2 (D29B6) Rabbit mAb



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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 78-90	Source/Isotype: Rabbit IgG	UniProt ID: #Q8IWQ3	Entrez-Gene Id: 9024		
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 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	BRSK2 (D29B6) Rabbit mAb detects endogenous levels of total BRSK2 protein.						
			dy is produced by immunizing animals with a synthetic peptide corresponding to amino terminus of human BRSK2 protein.					
Background		Br ain- s pecific k inase 1 (BRSK1; SAD-B) and Br ain- s pecific k inase 2 (BRSK2; SAD-A) are serine/threonine kinases closely related to AMPK. LKB1 phosphorylates Thr189 in the T-loop of BRSK1 and Thr174 in the T-loop of BRSK2, resulting in activation of the kinases (1). BRSK1 localizes to synaptic vesicles in the hippocampus and cerebellum, together with the active zone proteins Bassoon and CAST, and BRSK1 phoshorylates the active zone protein RIM1 (2). An alternatively spliced from of BRSK1 displays unique activity during the cell cycle, phosphorylating Ser131 of γ-tubulin and controling centrosome duplication (3). Neuronal polarization, including axon formation, is fundamental for normal brain development. BRSK1 -/- and BRSK2 -/- mice have defects in neuronal polarity and impaired corticogenesis (4). Knockdown of BRSK1 and BRSK2 <i>in vitro</i> diminishes axonal growth (5).						
Background Re	eferences	1. Bright, N.J. et al. (2008 2. Inoue, E. et al. (2006) 3. Alvarado-Kristensson 4. Kishi, M. et al. (2005) 5. Choi, Y.J. et al. (2008)	<i>Neuron</i> 50, 261-79 , M. et al. (2009) <i>N</i> <i>Science</i> 307, 929-3	5. J <i>at Cell Biol</i> 11, 1081-92. 32.				
Species Reactiv	/ity	Species reactivity is dete	ermined by testing	g in at least one approve	d application (e.g.,	western blot).		
Western Blot B	uffer	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.				n 5% w/v BSA, 1X		
Applications Ke	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivit	у Кеу	H: Human M: Mouse R: Rat						
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