Store at -200

BRSK2 (D29B6) Rabbit mAb



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Applications: I WB, 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			Dilution			
	Western Blotting			1:1000			
	Imr	munoprecipitation		1:50			
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20 °C. Do not aliquot the antibody.					
Specificity / Sensitiv	rity BRS	SK2 (D29B6) Rabbit	mAb detects end	logenous levels of total BRSK2 protein.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human BRSK2 protein.					
Background	serii and vesi and disp cent braii	Brain-specific kinase 1 (BRSK1; SAD-B) and Brain-specific kinase 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 y-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 Referer	2. In	 Bright, N.J. et al. (2008) J Biol Chem 283, 14946-54. Inoue, E. et al. (2006) Neuron 50, 261-75. Alvarado-Kristensson, M. et al. (2009) Nat Cell Biol 11, 1081-92. 					

- 4. Kishi, M. et al. (2005) Science 307, 929-32. 5. Choi, Y.J. et al. (2008) Genes Dev 22, 2485-95.

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 BSA, 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

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