Hamartin/TSC1 (1B2) Mouse mAb



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Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 150 to 170	Source/Isotype: Mouse IgG1	UniProt ID: #Q92574	Entrez-Gene Id: 7248
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage), 150 mM NaCl, 100 μg/ ot aliquot the antibody.	ml BSA, 50% glycer	rol and less than
Specificity/Sensitivity		Hamartin/TSC1 (1B2) Mouse mAb detects endogenous levels of total hamartin protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a recombinant protein from the central region of human harmartin.				
Background		hamartomas in brain, encode hamartin and s are involved in numero the cell cycle, steroid h filaments to the actin o studies demonstrate the the Ras-related small of lacking hamartin or tu ribosomal protein's tra	kidney, heart, lung tuberin, respectivel ous cellular activitie ormone regulation cytoskeleton (4-9). I nat the tuberin/har oprotein Rheb and berin fail to inhibit inslation of 5'TOP r	tosomal dominant disor and skin (1). The tumor y (2,3). Hamartin and tu is such as vesicular traffi , Rho activation and and the combination of gene nartin complex function thus inhibits targets of phosphorylation of S6 k nRNA transcripts (10). Hells in G2/M phase of the	suppressor genes cherin form a function of the	rSC1 and TSC2 conal complex and f the G1 phase of termediate d cell-biological ating protein for g mTOR. Cells ne activation of S6
Background References		 Sparagana, S.P. and Roach, E.S. (2000) Curr. Opin. Neurol. 13, 115-119. van Slegtenhorst, M. et al. (1997) Science 277, 805-808. No authors listed. (1993) Cell 75, 1305-1315. Plank, T.L. et al. (1998) Cancer Res. 58, 4766-4770. Xiao, G. et al. (1997) J. Biol. Chem. 272, 6097-6100. Tapon, N. et al. (2001) Cell 105, 345-355. Henry, K.W. et al. (1998) J. Biol. Chem. 273, 20535-20539. Lamb, R.F. et al. (2000) Nat. Cell Biol. 2, 281-287. Haddad, L.A. et al. (2002) J. Biol. Chem. 277, 44180-44186. Manning, B.D. and Cantley, L.C. (2003) Trends Biochem Sci. 28, 573-576. Astrinidis, A. et al. (2003) J. Biol. Chem. 278, 51372-51379. 				

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 nonfat

dry milk, 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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