3635 Store at -200

Tuberin/TSC2 (28A7) Rabbit mAb



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Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 200	Source/Isotype: Rabbit IgG	UniProt ID: #P49815	Entrez-Gene Id: 7249	
Product Usage Information	Ap	plication		Dilution			
	We	estern Blotting		1:1000			
	Imi	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 / Sensi	tivity Tub	Tuberin/TSC2 (28A7) Rabbit mAb detects endogenous levels of total tuberin.					
Source / Purificati		Monoclonal antibody is produced by immunizing animals with a synthetic peptide from the amino terminus of human tuberin.					
Background	tum scle wide Pho In a S6 I	Tuberin is a product of the TSC2 tumor suppressor gene and an important regulator of cell proliferation and tumor development (1). Mutations in either <i>TSC2</i> or the related <i>TSC1</i> (hamartin) gene cause tuberous sclerosis complex (TSC), an autosomal dominant disorder characterized by development of multiple, widespread non-malignant tumors (2). Tuberin is directly phosphorylated at Thr1462 by Akt/PKB (3). Phosphorylation at Thr1462 and Tyr1571 regulates tuberin-hamartin complexes and tuberin activity (3-5). In addition, tuberin inhibits the mammalian target of rapamycin (mTOR), which promotes inhibition of p70 S6 kinase, activation of eukaryotic initiation factor 4E binding protein 1 (4E-BP1, an inhibitor of translation initiation), and eventual inhibition of translation (3,6,7).					
Background Refe	2. S 3. M 4. A 5. D 6. G	paragana, S.P. and fanning, B.D. et al. (icher, L.D. et al. (20 van, H.C. et al. (2002 concharova, E.A. et	al. (1998) <i>Proc Natl Acad Sci U S A</i> 95, 15653-8. P. and Roach, E.S. (2000) <i>Curr Opin Neurol</i> 13, 115-9. et al. (2002) <i>Mol Cell</i> 10, 151-62. al. (2001) <i>J Biol Chem</i> 276, 21017-21. al. (2002) <i>J Biol Chem</i> 277, 35364-70. E.A. et al. (2002) <i>J Biol Chem</i> 277, 30958-67. (2002) <i>Nat Cell Biol</i> 4, 648-57.				

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

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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