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Phospho-Tuberin/TSC2 (Ser664) (D3B9Z) Rabbit mAb



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## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: React WB, IP F	tivity: Sensitivity: H Endogenous	<b>MW (kDa):</b> 200	Source/Isotype: Rabbit IgG	UniProt ID: #P49815	Entrez-Gene Id: 7249	
Product Usage Information	Application Western Blotting Immunoprecipitation	Western Blotting		<b>Dilution</b> 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 / Sensitivity		Phospho-Tuberin/TSC2 (Ser664) (D3B9Z) Rabbit mAb recognizes endogenous levels of Tuberin/TSC2 protein only when phosphorylated at Ser664. This antibody cross-reacts with a 140kD protein of unknown origin.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser664 of human Tuberin/TSC2 protein.				
Background	Tuberin is a product of th tumor development (1). I sclerosis complex (TSC) widespread non-maligna Phosphorylation at Thr14 In addition, tuberin inhibi S6 kinase, activation of e initiation), and eventual i p44/42 MAPK (Erk1/2) p considerably decreases transformation (8,9). Fur at Ser664 may benefit fro	Mutations in eith , an autosomal ant tumors (2). The 462 and Tyr1572 ts the mammalia eukaryotic initiat nhibition of trans hosphorylates of the ability of TS thermore, studie	ner <i>TSC2</i> or the related dominant disorder chara uberin is directly phosph 1 regulates tuberin-hama an target of rapamycin (fi ion factor 4E binding pro slation (3,6,7). of TSC2 at Ser664 which C2 to inhibit mTOR sign as have indicated that ca	<i>TSC1</i> (hamartin) gene acterized by developme iorylated at Thr1462 b artin complexes and tu mTOR), which promot otein 1 (4E-BP1, an inf l leads to TSC1-TSC2 aling, cell proliferation	cause tuberous ent of multiple, y Akt/PKB (3). uberin activity (3-5). es inhibition of p70 hibitor of translation dissociation and and oncogenic	
Background References	<ol> <li>Soucek, T. et al. (1998)</li> <li>Sparagana, S.P. and F</li> <li>Manning, B.D. et al. (2</li> <li>Aicher, L.D. et al. (2002)</li> <li>Dan, H.C. et al. (2002)</li> <li>Goncharova, E.A. et a</li> <li>Inoki, K. et al. (2002) <i>I</i></li> <li>Ma, L. et al. (2005) <i>Ce</i></li> <li>Ballif, B.A. et al. (2007) <i>Ca</i></li> </ol>	Roach, E.S. (200 2002) Mol Cell 1 1) J Biol Chem ) J Biol Chem 2 1. (2002) J Biol Nat Cell Biol 4, 6 21 121, 179-93. 5) Proc Natl Acad	00) Curr Opin Neurol 13 0, 151-62. 276, 21017-21. 77, 35364-70. Chem 277, 30958-67. 648-57. d Sci U S A 102, 667-72	, 115-9.		
Species Reactivity	Species reactivity is deter	mined by testing	g in at least one approve	ed application (e.g., we	estern 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	WB: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key	H: human M: mouse R: ra X: Xenopus Z: zebrafish I GP: Guinea Pig Rab: rab	B: bovine Dg: d	og <b>Pg:</b> pig Sc: S. cerevi		0	

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1/24, 9.49 AM	Thospho-luberin/1562 (Seroo4) (D5032) Rabbit IIAb (#40723) Datasheet Without IIIages Cell Signalin	
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