ର୍ଚ୍ଚ Phospho të Antibody	er2448)					
Store					Orders:	877-616-CELL (2355) orders@cellsignal.com
Ξ					Support:	877-678-TECH (8324)
#2971					Web:	info@cellsignal.com cellsignal.com
#				3 Trask	Lane Danvers Ma	ssachusetts 01923 USA
For Research Use Only	y. Not for Use in	Diagnostic Proce	edures.			
Applications: WB, W-S	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 289	Source: Rabbit	UniProt ID: #P42345	Entrez-Gene Id: 2475
Product Usage	Application			Dilution		

Product Usage	Application	Dilution			
Information	Western Blotting	1:1000			
	Simple Western™	1:10 - 1:50			
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity / Sensitivity	Phospho-mTOR (Ser2448) Antibody detects endogenous levels of mTOR only when phosphorylated at Ser2448.				
Species predicted to react based on 100% sequence homology:	Horse				
Source / Purification		re produced by immunizing animals with a synthetic phosphopeptide corresponding Ser2448 of human mTOR. Antibodies are purified by protein A and peptide affinity			
Background	as an ATP and amino acid sensor to bala nutrients are available, mTOR responds to p70 S6 kinase and participate in the in in the translation of specific mRNA subpo- kinase/Akt signaling pathway and autoph	OR, FRAP, RAFT) is a Ser/Thr protein kinase (1-3) that functions ance nutrient availability and cell growth (4,5). When sufficient to a phosphatidic acid-mediated signal to transmit a positive signal activation of the eIF4E inhibitor, 4E-BP1 (6). These events result opulations. mTOR is phosphorylated at Ser2448 via the PI3 nosphorylated at Ser2481 (7,8). mTOR plays a key role in cell normally regulated in tumors. For these reasons, mTOR is al target for anti-cancer therapy (9).			
Background References	 Sabers, C.J. et al. (1995) J Biol Chem Brown, E.J. et al. (1994) Nature 369, 7 Sabatini, D.M. et al. (1994) Cell 78, 35 Gingras, A.C. et al. (2001) Genes Dev Dennis, P.B. et al. (2001) Science 294, Fang, Y. et al. (2001) Science 294, 194 Navé, B.T. et al. (1999) Biochem J 344 Peterson, R.T. et al. (2000) J Biol Cher Huang, S. and Houghton, P.J. (2003) C 	756-8. -43. 15, 807-26. , 1102-5. 42-5. 4 Pt 2, 427-31. m 275, 7416-23.			
Species Reactivity	Species reactivity is determined by testing	g 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 W-S: Simple West	ern™			
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 				

Trademarks and Patents

Limited Uses

Phospho-mTOR (Ser2448) Antibody (#2971) Datasheet Without Images Cell Signaling Technology

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