Revision 1 Phospho-mTOR (Ser2481) Antibody	T E	ell Signaling CHNOLOGY®
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com
	Support:	877-678-TECH (8324)
674	Web:	info@cellsignal.com cellsignal.com
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Applications: W	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 289	<b>Source/Isotype:</b> Rabbit	UniProt ID: #P42345	Entrez-Gene Id 2475	
Product Usage Information	2	Application Western Blotting			Dilution 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Ser	nsitivity	Phospho-mTOR (Ser2481) Antibody detects endogenous levels of mTOR only when phosphorylated at serine 2481.					
Source / Purifi	ication	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser2481 of human mTOR. Antibodies are purified by protein A and peptide affinity chromatography.					
Background		as an ATP and amino a nutrients are available signal to p70 S6 kinas result in the translatic PI3 kinase/Akt signalii cell growth and home	acid sensor to balar e, mTOR responds t e and participate ir on of specific mRNA ng pathway and au ostasis and may be	OR, FRAP, RAFT) is a Ser. nce nutrient availability a to a phosphatidic acid-m the inactivation of the e subpopulations. mTOR tophosphorylated at Ser abnormally regulated i tial target for anti-cancer	and cell growth (4,5 ediated signal to tr eIF4E inhibitor, 4E-B is phosphorylated a 2481 (7,8). mTOR p n tumors. For these	). When sufficient ansmit a positive P1 (6). These events at Ser2448 via the lays a key role in	
Background R	eferences	<ol> <li>Sabers, C.J. et al. (1995) <i>J Biol Chem</i> 270, 815-22.</li> <li>Brown, E.J. et al. (1994) <i>Nature</i> 369, 756-8.</li> <li>Sabatini, D.M. et al. (1994) <i>Cell</i> 78, 35-43.</li> <li>Gingras, A.C. et al. (2001) <i>Genes Dev</i> 15, 807-26.</li> <li>Dennis, P.B. et al. (2001) <i>Science</i> 294, 1102-5.</li> <li>Fang, Y. et al. (2001) <i>Science</i> 294, 1942-5.</li> <li>Navé, B.T. et al. (1999) <i>Biochem J</i> 344 Pt 2, 427-31.</li> <li>Peterson, R.T. et al. (2000) <i>J Biol Chem</i> 275, 7416-23.</li> <li>Huang, S. and Houghton, P.J. (2003) <i>Curr Opin Pharmacol</i> 3, 371-7.</li> </ol>					
Species Reacti	ivity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot I	Buffer		vestern blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X 0 20 at 4°C with gentle shaking, overnight.				
Applications <b>K</b>	(ey	W: Western Blotting					
Cross-Reactivi	ty Key	H: Human M: Mouse I	<b>R:</b> Rat <b>Mk:</b> Monkey				
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