RagB Antibody				
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com		
	Support:	877-678-TECH (8324)		
#3830	Web:	info@cellsignal.com cellsignal.com		
8	3 Trask Lane   Danvers   Massachusetts   01923   USA			
For Research Use Only. Not for Use in Diagnostic Procedures.				

Applications: W	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 40	Source/Isotype: Rabbit	UniProt ID: #Q5VZM2	<b>Entrez-Gene Id:</b> 10325	
Product Usage Information	2	<b>Application</b> Western Blotting			<b>Dilution</b> 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	RagB Antibody detects endogenous levels of total RagB protein.					
Source / Purifi	ication	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human RagB protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background		The mTORC1 kinase complex is a critical regulator of cell growth (1,2). Its activity is modulated by energy levels, growth factors, and amino acids via signaling through Akt, MAPK, and AMPK pathways (3,4). Recent studies found that the four related GTPases, RagA, RagB, RagC, and RagD, interact with raptor within the mTORC1 complex (1,2). These interactions are both necessary and sufficient for mTORC1 activation in response to amino acid signals (1,2).					
Background R	eferences	1. Sancak, Y. et al. (2008) <i>Science</i> 320, 1496-501. 2. Kim, E. et al. (2008) <i>Nat Cell Biol</i> 10, 935-45. 3. Hay, N. and Sonenberg, N. (2004) <i>Genes Dev</i> 18, 1926-45. 4. Wullschleger, S. et al. (2006) <i>Cell</i> 124, 471-84.					
Species Reacti	ivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot B	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 K	(ey	W: Western Blotting					
Cross-Reactivi	ty Key	H: Human					
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		approved, cleared, or purpose. Customer sh any manner that conf Customer as the end- diagnostic, prophylact component) or other sell, license, loan, don whether alone or in co	licensed by the FD/ hall not use any Pro licts with its labelin user and solely for tic or therapeutic p commercial purpos late or otherwise tra- pombination with oth	Se Only or a similar labe A or other regulatory for duct for any diagnostic o g statement. Products so research and developmo urposes, or any purchas se, requires a separate lio ansfer or make available her materials, or use the fy, reverse engineer, dec	eign or domestic er or therapeutic purp old or licensed by C ent uses. Any use o e of Product for res cense from CST. Cu e any Product to any Products to manuf	ntity, for any ose, or otherwise in ST are provided for f Product for ale (alone or as a stomer shall (a) not y third party, facture any	

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