e at -20C	Phospho-PRAS40 (Thr246) (D4D2) XP [®] Rabbit mAb		Cell Signaling	
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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#		3 Trask Lane Danvers	Massachusetts 01923 USA	

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

		sitivity: ogenous	MW (kDa): 40	Source/Isotype: Rabbit	UniProt ID: #Q96B36	Entrez-Gene Id: 84335		
Product Usage	Applicatio	n			[Dilution		
Information	Western Bl	otting			1	:1000		
	Immunopre	ecipitation			1	.:50		
	Immunohis	tochemistry	(Paraffin)		1	:200		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% gly 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				erol and less than		
	For a carrier	free (BSA a	and azide free) v	ersion of this product se	e product #32263.			
Specificity / Sensitivi		Phospho-PRAS40 (Thr246) (D4D2) $XP^{\textcircled{B}}$ Rabbit mAb recognizes endogenous levels of PRAS40 protein only when phosphorylated at Thr246.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to the sequence surrounding Thr246 of human PRAS40 protein.						
Background	in the activa Akt substrate binds mTOF PRAS40 bin complex 1 (r mediated by	tion of down e is a 40 kD to transduc iding to mTC mTORC1) in v the cell cyc	stream effector a, proline-rich pr ce Akt signals to DR, which in turn i insulin-deprived le protein Rheb.	ce the phosphoinositide proteins such as the ser otein (PRAS40) that bin the mTOR complex. Inh inhibits mTOR activity (d cells and inhibits the a Phosphorylation of PRA irn phosphorylates PRA	ine/threonine kinase A ds to 14-3-3 proteins ibition of mTOR signa (3). PRAS40 interacts ctivation of the mTOR AS40 by Akt at Thr246	Akt (1,2). One known (2). PRAS40 also Iling stimulates with raptor in mTOR C1 pathway		
Background Referen	2. Kovacina, 3. Vander Ha 4. Sancak, Y	, K.S. et al. (aar, E. et al. ⁄. et al. (200	Science 296, 165 2003) J Biol Che (2007) Nat Cell 7) Mol Cell 25, 9 7) J Biol Chem 28	em 278, 10189-94. Biol 9, 316-23. 03-15.				
Species Reactivity	Species reac	tivity is dete	rmined by testing	g in at least one approve	ed application (e.g., w	estern 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: Wester	WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)						
Cross-Reactivity Key	X: Xenopus Z	 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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Phospho-PRAS40 (Thr246) (D4D2) XP® Rabbit mAb (#13175) Datasheet Without Images Cell Signaling T...

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