

Applications: FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #P42345	Entrez-Gene Id: 2475	
Product Usage	Арр	lication			Dilution	
Information	Flow	/ Cytometry (Fixe	d/Permeabilized)		1:50	
Storage	Supp antibo	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliq antibody. Protect from light. Do not freeze.				
Specificity / Sensitiv	<b>/ity</b> mTO	mTOR (7C10) Rabbit mAb (Alexa Fluor <sup>®</sup> 488 Conjugate) detects endogenous levels of total mTOR protein.				
Species predicted to react based on 1009 sequence homology	D Horse % /:	9				
Source / Purification	<b>1</b> Mono residu optim	oclonal antibody is ues surrounding s al conditions with	s produced by immunizing anima Ser2481 of human mTOR. This a n an F/P ratio of 2-6.	Is with a synthetic peptide corres ntibody was conjugated to Alexa	sponding to a Fluor <sup>®</sup> 488 under	
Product Description	This ( house reacti	Cell Signaling Teo e for direct flow c ivity as the uncor	chnology antibody is conjugated t ytometry in human cells. The anti jugated mTOR (7C10) Rabbit m/	to Alexa Fluor <sup>®</sup> 488 fluorescent c ibody is expected to exhibit the s Ab #2983.	dye and tested in- same species cross-	
Background	The n as an nutrie to p70 in the kinas growt curren	nammalian targe ATP and amino ents are available 0 S6 kinase and e translation of sp e/Akt signaling p th and homeosta: ntly under investi	t of rapamycin (mTOR, FRAP, RA acid sensor to balance nutrient a , mTOR responds to a phosphati participate in the inactivation of th ecific mRNA subpopulations. mT athway and autophosphorylated a sis and may be abnormally regula gation as a potential target for an	AFT) is a Ser/Thr protein kinase ( vailability and cell growth (4,5). V dic acid-mediated signal to trans the eIF4E inhibitor, 4E-BP1 (6). The OR is phosphorylated at Ser244 at Ser2481 (7,8). mTOR plays a tated in tumors. For these reason tit-cancer therapy (9).	(1-3) that functions When sufficient mit a positive signal hese events result 8 via the PI3 key role in cell s, mTOR is	
Background Refere	nces 1. Sal 2. Brc 3. Sal 4. Gir 5. De 6. Far 7. Na 8. Pet 9. Hu	bers, C.J. et al. (: own, E.J. et al. (1 batini, D.M. et al. ngras, A.C. et al. nnis, P.B. et al. (2 ng, Y. et al. (2001 vé, B.T. et al. (19 terson, R.T. et al. ang, S. and Hou	<ul> <li>1995) J Biol Chem 270, 815-22.</li> <li>994) Nature 369, 756-8.</li> <li>(1994) Cell 78, 35-43.</li> <li>(2001) Genes Dev 15, 807-26.</li> <li>2001) Science 294, 1102-5.</li> <li>.) Science 294, 1942-5.</li> <li>99) Biochem J 344 Pt 2, 427-31.</li> <li>(2000) J Biol Chem 275, 7416-2</li> <li>ghton, P.J. (2003) Curr Opin Phar</li> </ul>	3. macol 3, 371-7.		
Species Reactivity	Specie	es reactivity is de	termined by testing in at least on	e approved application (e.g., wes	stern blot).	
Applications Key	FC-FI	P: Flow Cytometr	ry (Fixed/Permeabilized)			
Cross-Reactivity Ke	y H: hun X: Xer	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

1/1/24, 11:38 AM	mTOR (7C10) Rabbit mAb (Alexa Fluor® 488 Conjugate) (#5043) Datasheet Without Images Cell Signalin
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