

#4262

Rab10 Antibody



Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M Mk	Endogenous	23	Rabbit	#P61026	10890

Product Usage Information	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 / Sensitivity	Rab10 Antibody detects endogenous levels of total Rab10 protein.	
Species predicted to react based on 100% sequence homology:	Rat	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp114 of human Rab10 protein. Antibodies are purified by peptide affinity chromatography.	
Background	Rab10 is a member of the Ras superfamily of small Rab GTPases (1) that interacts with Mss4, myosin V (Va, Vb and Vc) and GDI as it helps mediate sorting among cellular endosomes (2-4). Mutation analysis and GFP-fusion protein expression of Rab10 in MDCK cells determined that Rab10 plays a regulatory role in membrane protein transport between early endosomes and basolateral compartments (5,6). Rab10 associates with the GLUT4 complex as a target for AS160 and is required for insulin-stimulated GLUT4 translocation in adipocytes (7,8).	
Background References	1. Chen, Y.T. et al. (1993) <i>Proc Natl Acad Sci USA</i> 90, 6508-12. 2. Burton, J.L. et al. (1994) <i>EMBO J</i> 13, 5547-58. 3. Roland, J.T. et al. (2009) <i>J Biol Chem</i> 284, 12113-23. 4. Chen, Y. et al. (2009) <i>Biochem J</i> 422, 229-35. 5. Schuck, S. et al. (2007) <i>Traffic</i> 8, 47-60. 6. Babbey, C.M. et al. (2006) <i>Mol Biol Cell</i> 17, 3156-75. 7. Sano, H. et al. (2007) <i>Cell Metab</i> 5, 293-303. 8. Larance, M. et al. (2005) <i>J Biol Chem</i> 280, 37803-13.	

Species Reactivity	Species reactivity is determined by testing 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
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
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