

# Rab10 Antibody

✓ 100 µl  
(10 western blots)

Orders ■ 877-616-CELL (2355)  
orders@cellsignaling.com

Support ■ 877-678-TECH (8324)  
info@cellsignaling.com

Web ■ www.cellsignaling.com

rev. 07/28/10

This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W Endogenous	H, M, Mk, (R)	23 kDa	Rabbit**

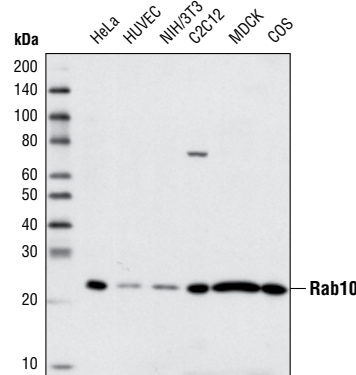
**Background:** Rab10 is a member of the Ras superfamily of small Rab GTPases (1) that interacts with Msst4, myosin V (Va, Vb and Vc), and GDI as it helps mediate sorting among cellular endosomes (2-4). Mutation analysis and GFP-fusion protein expression of Rab10 in MDCK cells determined that Rab10 plays a regulatory role in membrane protein transport between early endosome and basolateral compartments (5,6). Rab10 associates with the GLUT4 complex as a target for AS160 and is required for translocation of GLUT4 under insulin stimulation in adipocytes (7,8).

**Specificity/Sensitivity:** Rab10 Antibody detects endogenous levels of total Rab10 protein.

**Source/Purification:** Polyclonal antibodies are produced by immunizing animals with a synthetic peptide (KLH-coupled) corresponding to residues surrounding Asp114 of human Rab10 protein. Antibodies are purified by peptide affinity chromatography.

#### Background References:

- (1) Chen, Y.T. et al. (1993) *Proc Natl Acad Sci USA* 90, 6508-12.
- (2) Burton, J.L. et al. (1994) *EMBO J* 13, 5547-58.
- (3) Roland, J.T. et al. (2009) *J Biol Chem* 284, 1213-23.
- (4) Chen, Y. et al. (2009) *Biochem J* 422, 229-35.
- (5) Schuck, S. et al. (2007) *Traffic* 8, 47-60.
- (6) Babbey, C.M. et al. (2006) *Mol Biol Cell* 17, 3156-75.
- (7) Sano, H. et al. (2007) *Cell Metab* 5, 293-303.
- (8) Larance, M. et al. (2005) *J Biol Chem* 280, 37803-13.



Western blot analysis of extracts from various cell lines using Rab10 Antibody.

Entrez-Gene ID #10890  
Swiss-Prot Acc. #P61026

**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.

\*Species cross-reactivity is determined by western blot.

\*\*Anti-rabbit secondary antibodies must be used to detect this antibody.

#### Recommended Antibody Dilutions:

Western blotting 1:1000

For application specific protocols, please see the web page for this product at [www.cellsignaling.com](http://www.cellsignaling.com)

Please visit [www.cellsignaling.com](http://www.cellsignaling.com) for a complete listing of recommended companion products.

**IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.**

**Applications Key:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide

**Species Cross-Reactivity Key:** H—human M—mouse R—rat Hm—hamster Mk—monkey 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

All—all species expected

Species enclosed in parentheses are predicted to react based on 100% homology.