

#4262
Store at -20C

Rab10 Antibody

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

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

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**W:** Western Blotting**Cross-Reactivity Key****H:** Human **M:** Mouse **Mk:** Monkey**Trademarks and Patents**

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