

#8127 Store at -20C

**Rab10 (D36C4) XP<sup>®</sup> Rabbit mAb**

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, IF-IC	H M R Mk	Endogenous	23	Rabbit IgG	#P61026	10890

**Product Usage Information****Application**

Western Blotting  
Immunoprecipitation  
Immunofluorescence (Immunocytochemistry)

**Dilution**

1:1000  
1:50  
1:50 - 1:200

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

**Specificity/Sensitivity**

Rab10 (D36C4) XP<sup>®</sup> Rabbit mAb recognizes endogenous levels of total Rab10 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly190 of human Rab10 protein.

**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**

- Chen, Y.T. et al. (1993) *Proc Natl Acad Sci USA* 90, 6508-12.
- Burton, J.L. et al. (1994) *EMBO J* 13, 5547-58.
- Roland, J.T. et al. (2009) *J Biol Chem* 284, 1213-23.
- Chen, Y. et al. (2009) *Biochem J* 422, 229-35.
- Schuck, S. et al. (2007) *Traffic* 8, 47-60.
- Babbey, C.M. et al. (2006) *Mol Biol Cell* 17, 3156-75.
- Sano, H. et al. (2007) *Cell Metab* 5, 293-303.
- 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 **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

**Cross-Reactivity Key**

**H:** Human **M:** Mouse **R:** Rat **Mk:** Monkey

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