

#8127 Store at -20°C

Rab10 (D36C4) XP® 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:
WB, 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® 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

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

WB: Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

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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