Revision 1

#12561 Store at -20C

Rab7 (D95F2) XP® Rabbit mAb (HRP Conjugate)

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	23	Rabbit IgG	#P51149	7879

Product Usage Information

Application	Dilution
Western Blotting	1:1000

Storage

Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at –20°C. Do not aliquot the antibodies.

Specificity / Sensitivity

Rab7 (D95F2) XP® Rabbit mAb (HRP Conjugate) detects endogenous levels of total Rab7 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu188 of human Rab7 protein.

Product Description

This Cell Signaling Technology antibody is conjugated to the carbohydrate groups of horseradish peroxidase (HRP) via its amine groups. The HRP conjugated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Rab7 (D95F2) XP® Rabbit mAb #9367.

MW (kDa) 23

Background

Rab7 and Rab9 are members of the Ras superfamily of small Rab GTPases (1). Both proteins are located in late endosomes, but exert different functions. Rab7 associates with the RIPL effector protein to control membrane trafficking from early to late endosomes and to lysosomes (2,3). Rab7 also helps to regulate growth receptor endocytic trafficking and degradation (3,4), and maturation of phagosome and autophagic vacuoles (4-6). Rab9 interacts with its effector proteins p40 and TIP47 (7,8) to promote the MPR (mannose 6-phosphate receptor)-associated lysosomal enzyme transport between late endosomes and the trans Golgi network (9,10).

Background References

1. Zerial, M. and McBride, H. (2001) *Nat Rev Mol Cell Biol* 2, 107-17.
2. Feng, Y. et al. (1995) *J Cell Biol* 131, 1435-52.
3. Méresse, S. et al. (1995) *J Cell Sci* 108 (Pt 11), 3349-58.
4. Ceresa, B.P. and Bahr, S.J. (2006) *J Biol Chem* 281, 1099-106.
5. Jäger, S. et al. (2004) *J Cell Sci* 117, 4837-48.
6. Méresse, S. et al. (1999) *EMBO J* 18, 4394-403.
7. Díaz, E. et al. (1997) *J Cell Biol* 138, 283-90.
8. Barbero, P. et al. (2002) *J Cell Biol* 156, 511-8.
9. Lombardi, D. et al. (1993) *EMBO J* 12, 677-82.
10. Riederer, M.A. et al. (1994) *J Cell Biol* 125, 573-82.

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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