

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

✓ 100 µl
 (10 western blots)



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Entrez Gene ID #7879
 UniProt ID #P51149

Applications W Endogenous	Species Cross-Reactivity* H, M, R, Mk	Molecular Wt. 23 kDa	Isotype Rabbit IgG
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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.

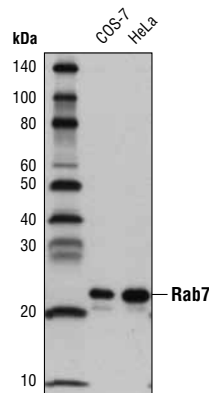
Background: Rab7 and Rab9 are members of the Ras superfamily of small Rab GTPases (1). Both proteins are located in late endosomes, but exert different functions. Rab7 associates with the RIPL effector protein to control membrane trafficking from early to late endosome and to lysosomes (2,3). Rab7 also 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).

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.

Background References:

- (1) Zerial, M. and McBride, H. (2001) *Nat Rev Mol Cell Biol* 2, 107-117.
- (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.



Western blot analysis of extracts from COS-7 and HeLa cells using Rab7 (D95F2) XP® Rabbit mAb (HRP Conjugate).

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.

***Species cross-reactivity is determined by western blot using the unconjugated antibody.**

HRP-conjugated antibodies do not require incubation with a secondary antibody.

Recommended Antibody Dilutions:

Western blotting 1:1000

For product specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended complementary 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.