

Rab11FIP1 (D9D8P) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene ID:
W, IP, IF-IC	H M Mk	Endogenous	85	Rabbit IgG	#Q6WKZ4	80223

Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:100
1:100

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

Rab11FIP1 (D9D8P) Rabbit mAb recognizes endogenous levels of total Rab11FIP1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu248 of human Rab11FIP1 protein.

Background

Rab11 family proteins consist of closely related Rab11a, Rab11b, and Rab25. They are small GTPases thought to play an essential role in regulating endocytic membrane traffic (1,2). The GTP-bound active state Rab11 proteins interact with the Rab11 family interacting proteins (Rab11FIPs) via a conserved carboxy-terminal Rab11-binding domain (3,4). At least six members of the Rab11FIPs have been identified. Based on sequence homology and domain structures, Rab11FIP1, Rab11FIP2 and Rab11FIP5 are categorized as class I subfamily members, whereas Rab11FIP3 and Rab11FIP4 belong to the class II subfamily that bind Arf6 and Rab11 proteins (5-7). Research studies have implicated Rab11 family proteins and their interacting effectors in carcinogenesis (8,9).

Background References

1. Bock, J.B. et al. (2001) *Nature* 409, 839-41.
2. Ullrich, O. et al. (1996) *J Cell Biol* 135, 913-24.
3. Hales, C.M. et al. (2001) *J Biol Chem* 276, 39067-75.
4. Prekeris, R. et al. (2001) *J Biol Chem* 276, 38966-70.
5. Meyers, J.M. and Prekeris, R. (2002) *J Biol Chem* 277, 49003-10.
6. Lindsay, A.J. and McCaffrey, M.W. (2004) *J Cell Sci* 117, 4365-75.
7. Hickson, G.R. et al. (2003) *Mol Biol Cell* 14, 2908-20.
8. Zhang, J. et al. (2009) *J Clin Invest* 119, 2171-83.
9. Muller, P.A. et al. (2009) *Cell* 139, 1327-41.

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 nonfat dry milk, 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 **Mk:** Monkey

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