

Rab35 Antibody

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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	H M R	Endogenous	24	Rabbit	#Q15286	11021

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

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

Specificity/Sensitivity

Rab35 Antibody detects endogenous levels of total Rab35 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp124 of human Rab35 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Rab35 belongs to the small GTPase superfamily. By interacting with its specific GEF or GAP, Rab35 regulates cargo-specific endocytosis at the vesicle recycling step or mediates exocytosis at the exosome docking/tethering step (1-4). During cytokinesis, Rab35 interacts with OCRL phosphatase and is essential for maintaining intercellular bridge stability and abscission by controlling the concentration of phosphatidylinositol 4,5-bisphosphate (PIP2) and SEPT2 localization at the intercellular bridge (5,6). Rab35 also plays a role in actin assembly and the recruitment of Cdc42 and Rac1 to the site of filopodium by its direct interaction with actin-bundling protein fascin and actin-binding protein connectin 3 (7-9).

Background References

1. Patino-Lopez, G. et al. (2008) *J Biol Chem* 283, 18323-30.
2. Sato, M. et al. (2008) *EMBO J* 27, 1183-96.
3. Marat, A.L. and McPherson, P.S. (2010) *J Biol Chem* 285, 10627-37.
4. Hsu, C. et al. (2010) *J Cell Biol* 189, 223-32.
5. Kouranti, I. et al. (2006) *Curr Biol* 16, 1719-25.
6. Dambournet, D. et al. (2011) *Nat Cell Biol* 13, 981-8.
7. Zhang, J. et al. (2009) *Science* 325, 1250-4.
8. Marat, A.L. et al. (2012) *Mol Biol Cell* 23, 163-75.
9. Shim, J. et al. (2010) *Mol Cell Biol* 30, 1421-33.

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

Cross-Reactivity Key

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

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