

#69295 Store at -20°C

Rab27A (D7Z9Q) Rabbit mAb


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Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, IF-IC	H M R	Endogenous	27	Rabbit IgG	#P51159	5873

Product Usage Information

Application

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:100
1:800 - 1:1600

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

Rab27A (D7Z9Q) Rabbit mAb recognizes endogenous levels of total Rab27a protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Rab27a protein.

Background

Rab27 is a member of the Ras superfamily of small Rab GTPases implicated in exocytosis (1-2). The protein is localized in secretory lysosomes, such as melanosomes in melanocyte or lytic granules in cytotoxic T cells to control exosome secretion pathway (3-5). Rab27 has two isoforms, Rab27a and Rab27b. Rab27a colocalizes with part of CD63 staining vesicles, and Rab27b shows perinuclear distribution. Target knock out studies indicate that the isoforms control different steps of the exosome secretion pathway (6). Rab27a interacts with a wide range of effectors and is involved in multiple steps of exocytosis depending on the effector it associated with and the cell type that is involved (1,2). Rab27a has been shown to be an important player in leukocyte function, cancer metastasis and invasion, and insulin secretion (7-11)

Background References

1. Fukuda, M. (2013) *Traffic* 14, 949-63.
2. Izumi, T. (2007) *Endocr J* 54, 649-57.
3. Elstak, E.D. et al. (2011) *Blood* 118, 1570-8.
4. Bahadoran, P. et al. (2001) *J Cell Biol* 152, 843-50.
5. Wood, S.M. et al. (2009) *Blood* 114, 4117-27.
6. Ostrowski, M. et al. (2010) *Nat Cell Biol* 12, 19-30; sup pp 1-13.
7. Catz, S.D. (2013) *J Leukoc Biol* 94, 613-22.
8. Herrero-Turrión, M.J. et al. (2008) *J Immunol* 181, 3793-803.
9. Ostensfeld, M.S. et al. (2014) *Cancer Res* 74, 5758-71.
10. Dong, W. et al. (2015) *Discov Med* 20, 357-67.
11. Cazares, V.A. et al. (2014) *Traffic* 15, 997-1015.

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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