

Code No. 18975

**Anti-
Rab27A/B Rabbit IgG Affinity purify**

Volume : 100 µg

Introduction : Small GTPase Rab is a large family of membrane trafficking proteins that are conserved in all eukaryotic cells. More than 60 Rab isoforms have been reported in mice and humans, and they are believed to regulate various steps (or various types) of organelle transport. The Rab27 subfamily is phylogenetically similar to the Rab3 subfamily, and two Rab27 isoforms, Rab27A and Rab27B, are present in mice and humans. Mutations in the RAB27A gene cause human Griscelli syndrome, which is characterized by pigment dilution and immunodeficiency. The GTP-bound activated form of Rab27A regulates melanosome transport in melanocytes and secretory granule exocytosis (e.g., insulin secretion) through interaction with a specific effector molecule (e.g., Synaptotagmin-like protein (Slp) and Slac2). Rab27B is also expressed on secretory granules, the same as Rab27A, and regulates their exocytosis (e.g., amylase release from rat parotid acinar cells).

Antigen : Recombinant Rab27B protein

Source : Rabbit antiserum

Purification : Affinity Purified with antigen protein

Form : Lyophilized product from 1% BSA in PBS containing 0.05%NaN₃

How to use : 1.0 ml distilled water will be added to the product, then its concentration comes to 100 ug/ml

Stability : Lyophilized product, 5 years at 2 – 8 °C
: Solution, 2 years at –20 °C

Application : This antibody can be used for western blotting in concentration of about 1~5 µg/mL.

Specificity : Cross-react with mouse and rat Rab27A/B
Not cross-react with the Rab3 subfamily

References : 1. Ménasché, G., Pastural, E., Feldmann, J., Certain, S., Ersoy, F., Dupuis, S., Wulffraat, N., Bianchi, D., Fischer, A., Le Deist, F., de Saint Basile, G. Mutations in *RAB27A* cause Griscelli syndrome associated with haemophagocytic syndrome. *Nat. Genet.* 25:173-176 (2000)
2. Imai, A., Yoshie, S., Nashida, T., Shimomura, H., Fukuda, M. The small GTPase Rab27B regulates amylase release from rat parotid acinar cells. *J. Cell Sci.* 117:1945-1953 (2004)
3. Fukuda, M. Versatile role of Rab27 in membrane trafficking: Focus on the Rab27 effector families. *J. Biochem.* 137:9-16 (2005)

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