Rab 27 B
Cat.No. 168 103; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/Storage
50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Albumin was added for stabilization. For reconstitution add 50 µl H2O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.

Applications
WB: 1 : 1000 (AP staining)
IP: yes
ICC: 1 : 500
HIC: 1 : 400
HIC-P/FFPE: 1 : 200

Immunogen
Recombinant protein corresponding to AA 1 to 217 from rat Rab27B (UniProt Id: Q99P74)

Reactivity
Reacts with: rat (Q99P74), mouse (Q99P58), human (Q00194). Other species not tested yet.

Specificity
Specific for rab 27B with weak cross reaction to rab 27A. K.O. PubMed: 26845357

Matching control
168-1P

Selected General References


Selected References SYSY Antibodies


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Rab 27 proteins are members of the Rab protein family that belongs to the ras-related superfamly of small monomeric GTPases. These proteins are involved in intracellular fusion reactions of vesicles or organelles with their target membranes. Two Rab 27 isofoms, Rab 27A and 27B, have been described so far.

Mutations in the Rab 27A gene have been shown to be responsible for the Griscelli syndrome characterized by pigment dilution of the hair and an uncontrolled T-lymphocyte and macrophage activation. This disorder is probably due to the dysfunction of melanosomes in melanocytes and lytic granules in CTLs. Additionally Rab 27A is located on mature insulin granules of pancreatic β-cells and is expressed in the pigment epithelium and choriodariellas of the retina. In patients who suffer from Griscelli syndrome because of missense mutations in the Rab 27A gene, Rab 27B is upregulated and partially compensates for Rab 27A dysfunction. Rab 27B also regulates amylase secretion in parotid acinar cells.

Recently it has been shown that Rab 27 is also involved in synaptic transmission in C. elegans.