Data Sheet (Cat.No.TMAC-03533)

Anti-RAP1GAP Antibody (4C780)

Product Details

Reactivity: Human

Conjugation: Unconjugated

Molecular Weight: Theoretical: 73 kDa.

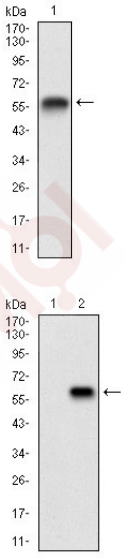
Clone: 4C780

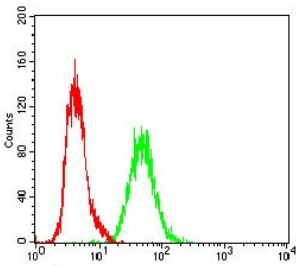
Purification: ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis of RAP1GAP on human RAP1GAP recombinant protein using anti-RAP1GAP antibody at 1/1,000 dilution.
2. Western blot analysis of RAP1GAP on HEK293 (1) and RAP1GAP-hIgGFc transfected HEK293 (2) cell lysate using anti-RAP1GAP antibody at 1/1,000 dilution.
3. Flow cytometric analysis of A431 cells with RAP1GAP antibody at 1/100 dilution (green) compared with an unlabelled control (cells without incubation with primary antibody; red).





Application: FCM,WB

Recommended: WB: 1:500-2000; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P47736

Synonyms: RAP1GA1;Rap1 GTPase activating protein 1;RAP1 GTPase activating protein;Rap1ga1 protein; RPGP1_HUMAN;KIAA0474;Rap1GAP;Rap1 GTPase-activating protein 1;RAPGAP;RAP1GAPII; Rap1GAP1

Research Background

Rap1 GTPase activating protein (Rap1GAP) specifically stimulates GTP hydrolytic activity of the monomeric G protein Rap1. Physical interaction between Gα z, a member of the Gi family of trimeric G proteins, and Rap1GAP blocks the ability of regulators of G protein signaling to stimulate GTP hydrolysis of the α subunit, and also attenuates the ability of activated Gα z to inhibit adenylyl cyclase. Rap1GAP is expressed in the brain, kidney and pancreas and may act as a signal integrator to coordinate and/or integrate Gz signaling and Rap1 signaling in cells. A novel isoform of Rapl GTPase-activating protein, designated Rap1GAPII, binds specifically to Gα z. Stimulation of the Gi-coupled M2 Muscarinic receptor translocates Rap1GAPII from the cytosol to the membrane and decreases the amount of GTP-bound Rap1, resulting in the activation of ERK/MAPK.

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