

RAP1GAP Antibody

Catalog No: #48393

Package Size: #48393-1 50ul #48393-2 100ul

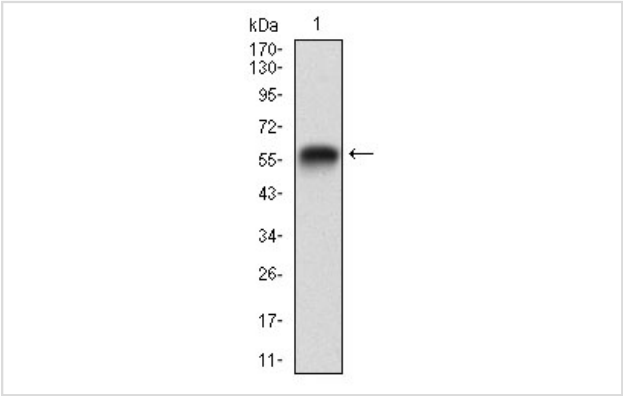
Description

Product Name	RAP1GAP Antibody
Host Species	Mouse
Clonality	Monoclonal
Clone No.	B6-G7
Purification	ProA affinity purified
Applications	WB, FC
Species Reactivity	Hu
Immunogen Description	Recombinant protein
Conjugates	Unconjugated
Other Names	KIAA0474 antibody Rap1 GTPase activating protein 1 antibody RAP1 GTPase activating protein antibody Rap1 GTPase-activating protein 1 antibody RAP1GA1 antibody Rap1ga1 protein antibody Rap1GAP antibody Rap1GAP1 antibody RAP1GAPII antibody RAPGAP antibody RPGP1_HUMAN antibody
Accession No.	Swiss-Prot#:P47736
Calculated MW	73 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

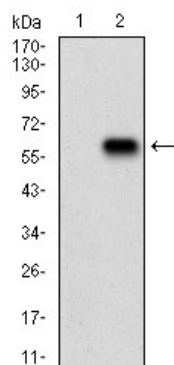
Application Details

WB: 1:500-1:2,000FC: 1:50-1:100

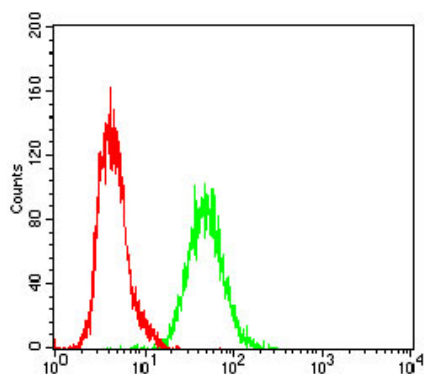
Images



Western blot analysis of RAP1GAP on human RAP1GAP recombinant protein using anti-RAP1GAP antibody at 1/1,000 dilution.



Western blot analysis of RAP1GAP on HEK293 (1) and RAP1GAP-hlgGfc transfected HEK293 (2) cell lysate using anti-RAP1GAP antibody at 1/1,000 dilution.



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).

Background

Rap1 GTPase activating protein (Rap1GAP) specifically stimulates GTP hydrolytic activity of the monomeric G protein Rap1. Physical interaction between $G\alpha_z$, 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 $G\alpha_z$ 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 G_z signaling and Rap1 signaling in cells. A novel isoform of Rap1 GTPase-activating protein, designated Rap1GAPII, binds specifically to $G\alpha_z$. 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.

References

Note: This product is for in vitro research use only and is not intended for use in humans or animals.