

Datasheet for ABIN3032428

anti-RAC1 antibody

7 Images

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Overview

Quantity:	0.4 mL
Target:	RAC1
Reactivity:	Human, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This RAC1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Flow Cytometry (FACS)

Product Details

Immunogen:	This RAC1 antibody was produced from a mouse immunized with a KLH conjugated synthetic peptide from the human protein.
Clone:	1301CT276-121-104
Isotype:	IgG2b
Cross-Reactivity (Details):	Expected species reactivity: Bovine, Mouse
Purification:	Purified

Target Details

Target:	RAC1
Abstract:	RAC1 Products
Background:	Plasma membrane-associated small GTPase which cycles between active GTP-bound and

Target Details

inactive GDP-bound states. In its active state, binds to a variety of effector proteins to regulate cellular responses such as secretory processes, phagocytosis of apoptotic cells, epithelial cell polarization and growth-factor induced formation of membrane ruffles. Rac1 p21/rho GDI heterodimer is the active component of the cytosolic factor sigma 1, which is involved in stimulation of the NADPH oxidase activity in macrophages. Essential for the SPATA13-mediated regulation of cell migration and adhesion assembly and disassembly. Stimulates PKN2 kinase activity. In concert with RAB7A, plays a role in regulating the formation of RBs (ruffled borders) in osteoclasts. In glioma cells, promotes cell migration and invasion. In podocytes, promotes nuclear shuttling of NR3C2, this modulation is required for a proper kidney functioning. Required for atypical chemokine receptor ACKR2-induced LIMK1-PAK1-dependent phosphorylation of cofilin (CFL1) and for up-regulation of ACKR2 from endosomal compartment to cell membrane, increasing its efficiency in chemokine uptake and degradation. In synapses, seems to mediate the regulation of F-actin cluster formation performed by SHANK3.

UniProt: [P63000](#)

Pathways: [WNT Signaling](#), [Regulation of Actin Filament Polymerization](#), [Cell-Cell Junction Organization](#), [Thromboxane A2 Receptor Signaling](#), [VEGF Signaling](#)

Application Details

Application Notes: Titration of the RAC1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Flow Cytometry: 1:100,IHC (Paraffin): 1:25,Western blot: 1:1000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: In 1X PBS, pH 7.4, with 0.09 % sodium azide

Preservative: Sodium azide

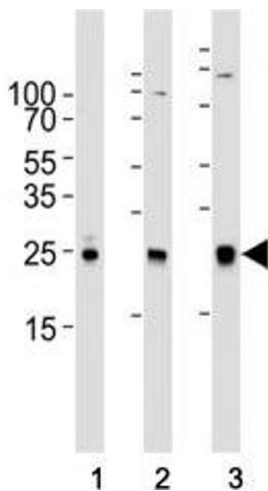
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Aliquot the RAC1 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw

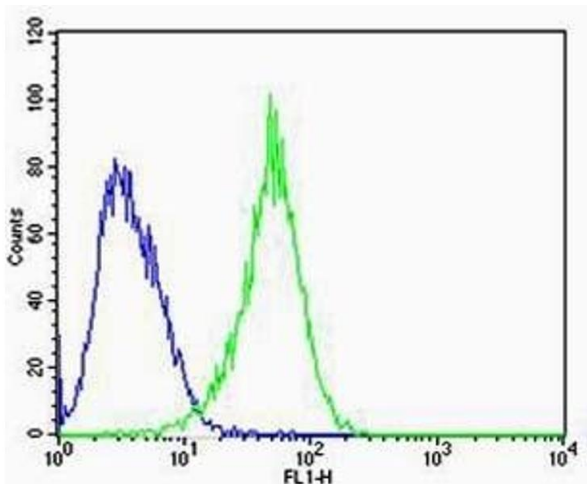
cycles.

Images



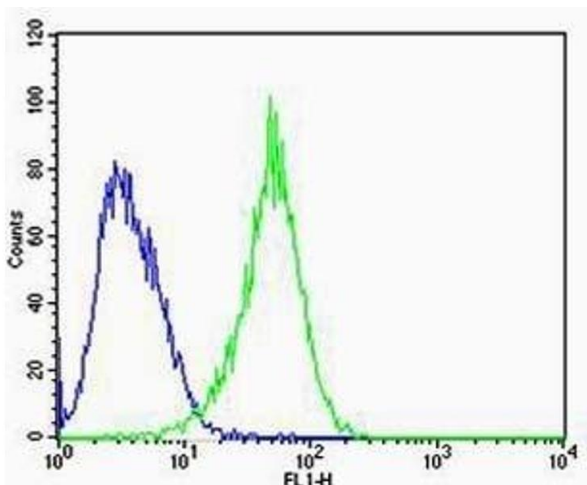
Western Blotting

Image 1. Western blot analysis of lysate from (1) human A431, (2) mouse NIH3T3, (3) rat C6 cell line using RAC1 antibody at 1:1000.



Flow Cytometry

Image 2. Flow cytometric analysis of U-87 MG cells using RAC1 antibody (green) and an isotype control of mouse IgG2b (blue)



Flow Cytometry

Image 3. Flow cytometric analysis of U-87 MG cells using RAC1 antibody (green) and an isotype control of mouse IgG2b (blue); Ab was diluted at 1:100 dilution.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN3032428.