

Datasheet for ABIN6242819

anti-RAC1 antibody

4 Images

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Overview

| | |
|--------------|---|
| Quantity: | 400 µL |
| Target: | RAC1 |
| Reactivity: | Human, Rat |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This RAC1 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS) |

Product Details

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|-----------------------|---|
| Immunogen: | This antibody is generated from a mouse immunized with a KLH conjugated synthetic peptide between amino acids from human. |
| Clone: | 1301CT276-121-104 |
| Isotype: | IgG2b |
| Predicted Reactivity: | B, M |
| Purification: | This antibody is purified through a protein G column, followed by dialysis against PBS. |

Target Details

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|-----------|-------------------------------|
| Target: | RAC1 |
| Abstract: | RAC1 Products |

Target Details

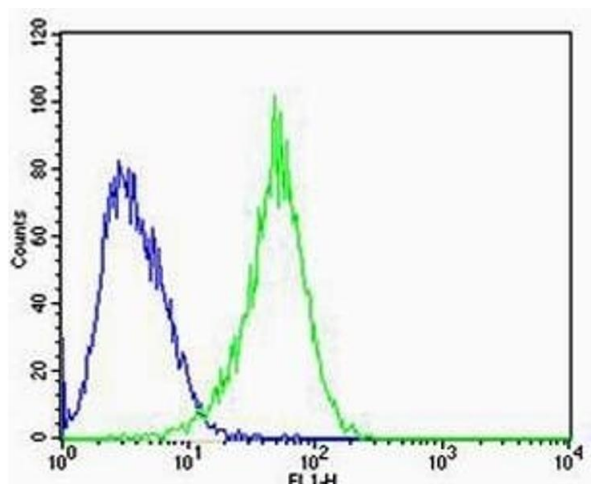
| | |
|-------------------|---|
| Background: | Plasma membrane-associated small GTPase which cycles between active GTP-bound and inactive GDP-bound states. In its active state, binds to a variety of effector proteins to regulate cellular responses such as secretory processes, phagocytosis of apoptotic 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. |
| Molecular Weight: | 21450 |
| UniProt: | P63000 |
| Pathways: | WNT Signaling , Regulation of Actin Filament Polymerization , Cell-Cell Junction Organization , Thromboxane A2 Receptor Signaling , VEGF Signaling |

Application Details

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|--------------------|---|
| Application Notes: | WB: 1:1000. IHC-P: 1:25. IHC-P: 1:25. FC: 1:100 |
| Restrictions: | For Research Use only |

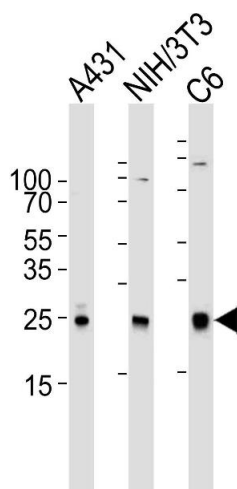
Handling

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|--------------------|--|
| Format: | Liquid |
| Buffer: | Purified monoclonal antibody supplied in PBS with 0.09 % (W/V) 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: | 4 °C,-20 °C |
| Expiry Date: | 6 months |



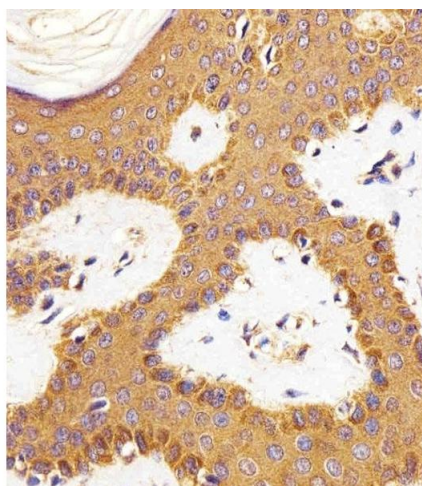
Flow Cytometry

Image 1. Flow cytometric analysis of U-87 MG cells using RAC1 (green, Cat (ABIN6242819 and ABIN6577074)) compared to an isotype control of mouse IgG2b (blue). (ABIN1944740 and ABIN2838564) was diluted at 1:100 dilution. An Alexa Fluor® 488 goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody.



Western Blotting

Image 2. Western blot analysis of lysates from A431, mouse NIH/3T3, rat C6 cell line (from left to right), using RAC1 Antibody (ABIN6242819 and ABIN6577074). (ABIN6242819 and ABIN6577074) was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L (HRP) at 1:3000 dilution was used as the secondary antibody. Lysates at 35 µg per lane.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Immunohistochemical analysis of paraffin-embedded H. skin section using RAC1 (ABIN6242819 and ABIN6577074). (ABIN6242819 and ABIN6577074) was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6242819.