Datasheet for ABIN2749042

# anti-ARHGEF4 antibody (AA 143-271)

2 Images

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## Overview

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|---|---|
| Quantity: | 0.1 mg |
| Target: | ARHGEF4 |
| Binding Specificity: | AA 143-271 |
| Reactivity: | Human |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This ARHGEF4 antibody is un-conjugated |
| Application: | Western Blotting (WB), Flow Cytometry (FACS) |

## Product Details

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|---|---|
| Immunogen: | Recombinant fragment of human ARHGEF4 (amino acids 143-271) |
| Clone: | ARHGEF-08 |
| Isotype: | IgG1 |
| Specificity: | The mouse monoclonal antibody ARHGEF-08 recognizes human intracellular protein ARHGEF4 / ASEF1, approx. 80 kDa guanine nucleotide exchange factor specific for Rac1 and Cdc42. The epitope is located in the rough at the region of SH3 domain. |
| Cross-Reactivity (Details): | Human |
| Purification: | Purified by protein-A affinity chromatography. |
| Purity: | > 95 % (by SDS-PAGE) |

## Target Details

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|---|---|
| Target: | ARHGEF4 |
| Alternative Name: | ARHGEF4 (ARHGEF4 Products) |
| Background: | Rho guanine nucleotide exchange factor 4,ARHGEF4 (Rho guanine nucleotide exchange factor 4), also known as ASEF 1 (adenomatous polyposis coli –, stimulated guanine nucleotide exchange factor 1) is an approximately 80 kDa cytoplasmic protein important for growth factor-mediated regulation of cell morphology and migration. Besides N-terminal adenomatous polyposis coli (APC)-binding region (ABR) it contains Dbl homology (DH), pleckstrin homology (PH) and SH3 domains. The SH3 domain inhibits GEF activity of ARHGEF4 by intramolecular interaction with the DH domain, whereas binding of APC stimulates the GEF activity. Activated ARHGEF4 stimulates the small GTPase Cdc42, which leads to decreased cell-cell adherence and enhanced cell migration.,ASEF1, GEF4, STM6 |
| Gene ID: | 50649 |
| UniProt: | Q9NR80 |
| Pathways: | Neurotrophin Signaling Pathway |

## Application Details

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| Application Notes: | Flow cytometry: Recommended dilution: 1-4 µg/mL. Intracellular staining. |
| Restrictions: | For Research Use only |

## Handling

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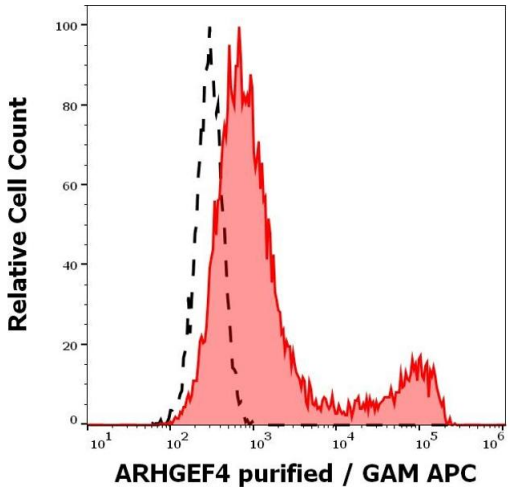
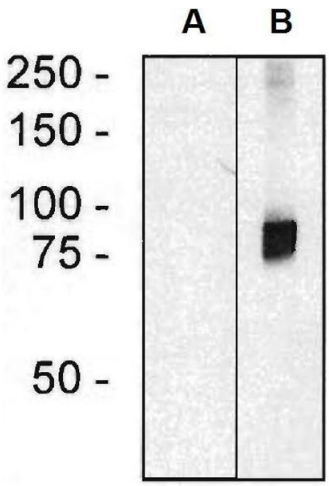
| Concentration: | 1 mg/mL |
| Buffer: | Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C |
| Storage Comment: | Store at 2-8°C. Do not freeze. |




## Flow Cytometry

**Image 1.** Separation of cells stained using anti-ARHGEF4 (ARHGEF-08) purified antibody (concentration in sample 4 µg/mL, GAM APC, red-filled) from cells unstained by primary antibody (GAM APC, black-dashed) in flow cytometry analysis (intracellular staining) of ARHGEF4 transfected HEK-293 cell suspension.




## Western Blotting

**Image 2.** Western blotting analysis of ARHGEF4 in HEK293 cells (A) and HEK293-ARHGEF4 transfectants (B) using mouse monoclonal anti-ARHGEF4 (clone ARHGEF-08).