

Anti-ARHGEF4 Purified Monoclonal Antibody

Catalog Number: M07246

About ARHGEF4

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.

Overview

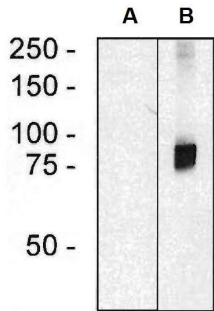
Product Name	Anti-ARHGEF4 Purified Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-ARHGEF4 Purified Monoclonal Antibody (Catalog# M07246). Tested in Flow Cytometry, WB application(s). This antibody reacts with Human.
Application	Flow Cytometry, WB
Clonality	Monoclonal ARHGEF-08
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	Q9NR80

Technical Details

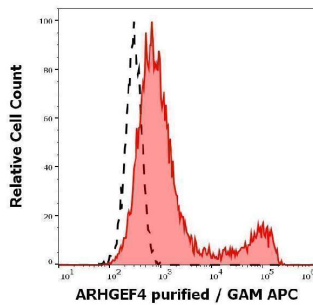
Immunogen	Recombinant fragment of human ARHGEF4 (amino acids 143-271). The mouse monoclonal antibody ARHGEF-08 recognizes human intracellular protein ARHGEF4 / ASEF1, approx. 80 kDa guanine nucleotide exchange factor specific for Rac1 and Cdc42. The epitope is located in the rough at the region of SH3 domain.
Predicted Reactive Species	Primate
Cross Reactivity	As in case with other anti-CD170 antibodies, this antibody cross-reacts with Siglec-14, whose first two Ig domains are almost identical to those of CD170.
Isotype	Mouse IgG1
Form	Liquid

Concentration	1 mg/ml
Purification	Purified by protein-A affinity chromatography.
Suggested Dilutions	Flow cytometry: 1-4 ug/ml. Intracellular staining.

Anti-ARHGEF4 Purified Monoclonal Antibody (M07246) Images



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



Separation of cells stained using anti-ARHGEF4 (ARHGEF-08) purified antibody (concentration in sample 4 $\mu\text{g/ml}$, 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.

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