

## ARG42367 anti-ARHGEF4 antibody [ARHGEF-08]

Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [ARHGEF-08] recognizes ARHGEF4
Tested Reactivity	Hu
Tested Application	FACS, WB
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.
Host	Mouse
Clonality	Monoclonal
Clone	ARHGEF-08
Isotype	IgG1
Target Name	ARHGEF4
Species	Human
Immunogen	Recombinant fragment corresponding to aa. 143-271 of Human ARHGEF4.
Conjugation	Un-conjugated
Alternate Names	STM6; Rho guanine nucleotide exchange factor 4; Asef; GEF4; APC-stimulated guanine nucleotide exchange factor 1; Asef1; ASEF; ASEF1

### Application Instructions

Application table	Application	Dilution
	FACS	1 - 4 µg/ml
	WB	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS and 15 mM Sodium azide.
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

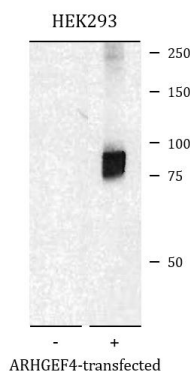
Note

For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Gene Symbol	ARHGEF4
Gene Full Name	Rho guanine nucleotide exchange factor (GEF) 4
Background	Rho GTPases play a fundamental role in numerous cellular processes that are initiated by extracellular stimuli that work through G protein coupled receptors. The protein encoded by this gene may form complex with G proteins and stimulate Rho-dependent signals. Multiple alternatively spliced transcript variants encoding different isoforms have been found, but the full-length nature of some variants has not been determined. [provided by RefSeq, Jun 2013]
Function	Acts as guanine nucleotide exchange factor (GEF) for RHOA, RAC1 and CDC42 GTPases. Binding of APC may activate RAC1 GEF activity. The APC-ARHGEF4 complex seems to be involved in cell migration as well as in E-cadherin-mediated cell-cell adhesion. Required for MMP9 up-regulation via the JNK signaling pathway in colorectal tumor cells. Involved in tumor angiogenesis and may play a role in intestinal adenoma formation and tumor progression. [UniProt]
Calculated Mw	79 kDa
Cellular Localization	Isoform 3: Cytoplasm. Cell projection, ruffle membrane; Peripheral membrane protein; Cytoplasmic side. Note=Associated with membrane ruffles. [UniProt]

## Images



ARG42367 anti-ARHGEF4 antibody [ARHGEF-08] WB image

Western blot: Non-transfected HEK293 and ARHGEF4-transfected HEK293. Cell lysates were stained with ARG42367 anti-ARHGEF4 antibody [ARHGEF-08].