

ARG58958 anti-ARHGEF1 antibody

Package: 50 μl Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ARHGEF1
Tested Reactivity	Hu, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	lgG
Target Name	ARHGEF1
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 783-912 of Human ARHGEF1 (NP_004697.2).
Conjugation	Un-conjugated
Alternate Names	p115RhoGEF; LSC; SUB1.5; Sub1.5; LBCL2; Rho guanine nucleotide exchange factor 1; P115-RHOGEF; 115 kDa guanine nucleotide exchange factor; p115-RhoGEF; GEF1

Application Instructions

Application table	Application	Dilution
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recomme should be determined by the scie	nded starting dilutions and the optimal dilutions or concentrations ntist.
Positive Control	HeLa	
Observed Size	102 kDa	

Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
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. 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	ARHGEF1
Gene Full Name	Rho guanine nucleotide exchange factor (GEF) 1
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 encoded protein may form complex with G proteins and stimulate Rho-dependent signals. Multiple alternatively spliced transcript variants have been found for this gene, but the full-length nature of some variants has not been defined. [provided by RefSeq, Jul 2008]
Function	Seems to play a role in the regulation of RhoA GTPase by guanine nucleotide-binding alpha-12 (GNA12) and alpha-13 (GNA13) subunits. Acts as GTPase-activating protein (GAP) for GNA12 and GNA13, and as guanine nucleotide exchange factor (GEF) for RhoA GTPase. Activated G alpha 13/GNA13 stimulates the RhoGEF activity through interaction with the RGS-like domain. This GEF activity is inhibited by binding to activated GNA12. Mediates angiotensin-2-induced RhoA activation. [UniProt]
Calculated Mw	102 kDa
PTM	Phosphorylated by PKCA. Angiotensin-2 induced Tyr-738 phosphorylation is mediated by JAK2. [UniProt]
Cellular Localization	Cytoplasm, Membrane. [UniProt]

Images

