Datasheet for ABIN7138096

anti-RHOA antibody (AA 180-184)

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Overview

Quantity:	100 µL
Target:	RHOA
Binding Specificity:	AA 180-184
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RHOA antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Peptide sequence around aa.180-184(Q-A-R-R-G) derived from Human RhoA.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.

Target Details

Target:	RHOA
Alternative Name:	RHOA (RHOA Products)
Background:	Background:

Target Details

	Regulates a signal transduction pathway linking plasma membrane receptors to the assembly of focal adhesions and actin stress fibers. Involved in a microtubule-dependent signal that is required for the myosin contractile ring formation during cell cycle cytokinesis. Plays an essential role in cleavage furrow formation. Required for the apical junction formation of keratinocyte cell-cell adhesion. Serves as a target for the yopT cysteine peptidase from Yersinia pestis, vector of the plague, and Yersinia pseudotuberculosis, which causes gastrointestinal disorders. Stimulates PKN2 kinase activity. May be an activator of PLCE1. Activated by ARHGEF2, which promotes the exchange of GDP for GTP. Essential for the SPATA13-mediated regulation of cell migration and adhesion assembly and disassembly. The MEMO1-RHOA-DIAPH1 signaling pathway plays an important role in ERBB2-dependent stabilization of microtubules at the cell cortex. It controls the localization of APC and CLASP2 to the cell membrane, via the regulation of GSK3B activity. In turn, membrane-bound APC allows the localization of the MACF1 to the cell membrane, which is required for microtubule capture and stabilization. Aliases: ARH12 antibody; ARHA antibody; H12 antibody; ras homolog gene family member A antibody; ras homolog gene family member B antibody; ras homolog gene family member C antibody; Rho cDNA clone 12 antibody; RHO12 antibody; RHOA antibody; RHOA_HUMAN antibody; rhob antibody; rhoc antibody; RHOH12 antibody; Small GTP binding protein RhoA antibody; Transforming protein RhoA antibody
UniProt:	P61586
Pathways:	Microtubule Dynamics, WNT Signaling, Neurotrophin Signaling Pathway, Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Intracellular Steroid Hormone Receptor Signaling, Regulation of Actin Filament Polymerization, Cell-Cell Junction Organization, Positive Regulation of Endopeptidase Activity, Signaling Events mediated by VEGFR1 and VEGFR2, Thromboxane A2 Receptor Signaling, SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	WB:1:500-1:1000,
Restrictions:	For Research Use only

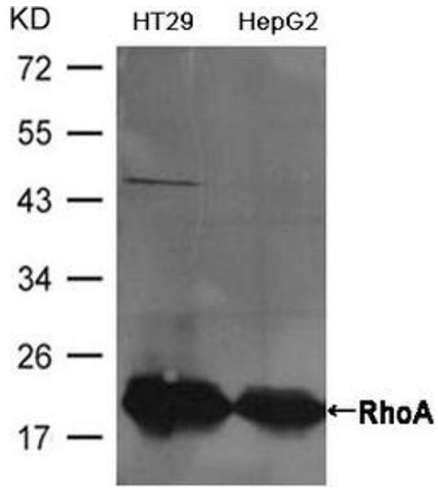
Handling

Format:	Liquid
Buffer:	Supplied at 1.0 mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150 mM

Handling

	NaCl, 0.02 % sodium azide and 50 % glycerol.
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:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Western Blotting

Image 1. Western blot analysis of extracts from HT29 and HepG2 cells using RhoA Antibody.