

Datasheet for ABIN7317377 **RHOA Protein (His tag)**



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Overview

Quantity:	100 µg
Target:	RHOA
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RHOA protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human RhoA Protein (His Tag)
Sequence:	Met 1-Leu 193
Characteristics:	A DNA sequence encoding the human RHOA (P61586-1) (Met 1-Leu 193) was fused with a polyhistidine tag at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	RHOA
Alternative Name:	RhoA (RHOA Products)
Background:	Background: Transforming protein RhoA, also known as Rho cDNA clone 12, Ras homolog gene family member A, RHOA and ARH12, is a cell membrane and cytoplasm protein which belongs to the small GTPase superfamily and Rho family. The Rho family of small GTPases plays a key

Target Details

role in the dynamic regulation of the actin cytoskeleton that underlies various important cellular functions such as shape changes, migration, and polarity. RHOA / ARH12 is part of a larger family of related proteins known as the Ras superfamily; proteins involved in the regulation and timing of cell division. RHOA / ARH12 is a small GTPase protein known to regulate the actin cytoskeleton in the formation of stress fibers. It acts upon two known effector proteins: ROCK1 (Rho-associated, coiled-coil containing protein kinase 1) and DIAPH1 (diaphanous homolog 1 (Drosophila)). RHOA / ARH12 regulates a signal transduction pathway linking plasma membrane receptors to the assembly of focal adhesions and actin stress fibers. RHOA / ARH12 serves as a target for the yopT cysteine peptidase from Yersinia pestis, vector of the plague, and Yersinia pseudotuberculosis, which causes gastrointestinal disorders. RHOA / ARH12 may be an activator of PLCE1. It is activated by ARHGEF2, which promotes the exchange of GDP for GTP.

Synonym: ARH12;ARHA;RHO12;RHOH12

Molecular Weight:	24 kDa
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

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, pH 7.4, 10 % glycerol
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.