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Datasheet for ABIN6242839 anti-DIAPH1 antibody (N-Term)

Image



Overview

Quantity:	400 µL
Target:	DIAPH1
Binding Specificity:	AA 18-52, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DIAPH1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This DIAPH1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 18-52 amino acids from the N-terminal region of human DIAPH1.
Clone:	RB30760
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	DIAPH1
Alternative Name:	DIAPH1 (DIAPH1 Products)
Background:	Acts in a Rho-dependent manner to recruit PFY1 to the membrane. Required for the assembly

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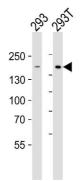
	of F-actin structures, such as actin cables and stress fibers. Nucleates actin filaments. Binds to
	the barbed end of the actin filament and slows down actin polymerization and
	depolymerization. Required for cytokinesis, and transcriptional activation of the serum
	response factor. DFR proteins couple Rho and Src tyrosine kinase during signaling and the
	regulation of actin dynamics. Functions as a scaffold protein for MAPRE1 and APC to stabilize
	microtubules and promote cell migration (By similarity). Has neurite outgrowth promoting
	activity (By similarity). In hear cells, it may play a role in the regulation of actin polymerization in
	hair cells. 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. Plays a role in the regulation of cell morphology and
	cytoskeletal organization. Required in the control of cell shape.
Molecular Weight:	141347

UniProt:	O60610
Pathways:	Sensory Perception of Sound

Application Details

Application Notes:	WB: 1:500-1:1000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
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:	4 °C,-20 °C
Expiry Date:	6 months

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Western Blotting

Image 1. Western blot analysis of lysates from 293, 293T cell line (from left to right), using DIH1 Antibody (N-term) 20655a. 20655a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35 µg per lane.

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