antibodies .- online.com





anti-DIAPH1 antibody



Overview

Quantity:	100 μL
Target:	DIAPH1
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This DIAPH1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Datails

Product Details	
Immunogen:	Recombinant protein corresponding to N-terminal human DIAPH1.
Clone:	1C11
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Purified by Protein A.
Target Details	
Target:	ΝΔΡΗ1

Target:	DIAPH1
Alternative Name:	DIAPH1 (DIAPH1 Products)

Target Details

Backo	round:
Backu	irouria.

Synonyms: Protein diaphanous homolog 1, Diaphanous-related formin-1, DRF1, DIAPH1, DIAP1 Background: Actin nucleation and elongation factor required for the assembly of F-actin structures, such as actin cables and stress fibers. 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. Has neurite outgrowth promoting activity. Acts in a Rho-dependent manner to recruit PFY1 to the membrane. 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. Plays a role in brain development. Also acts as an actin nucleation and elongation factor in the nucleus by promoting nuclear actin polymerization inside the nucleus to drive serum-dependent SRF-MRTFA activity.

Gene ID:	1729
UniProt:	060610

Pathways: Sensory Perception of Sound

Application Details

Application Notes:	WB 1:300-5000
	IHC-P 1:200-400
	IF(IHC-P) 1:50-200
	IF(ICC) 1:50-200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	Aqueous buffered solution containing 1xTBS (pH 7.4), 1 % BSA, 40 %Glycerol and 0.05 % Sodium Azide.

Handling

Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C for 12 months.
Expiry Date:	12 months