

Rho-GTPase Antibody Sampler Kit

Cat# AK0259

Upon receipt, store at -20°C. Avoid freeze/thaw cycles.

PRODUCT DESCRIPTION

The Rho family of small GTPases, including Rho, Rac, and cdc42, act as molecular switches to regulate processes such as cell migration, adhesion, proliferation and differentiation. RhoA, RhoB and RhoC are all highly homologous but appear to have divergent biological functions. The best characterized of these proteins, RhoA, regulates actomyosin contractility, cytokinesis, focal adhesion assembly and cell polarity. Mammalian Rac exists as three isoforms (Rac1, Rac2 and Rac3) that show high sequence similarity. Well-characterized Rac1 and cdc42 are ubiquitously expressed and play key signaling roles in cytoskeletal reorganization, membrane trafficking, transcriptional regulation, and cell growth and development. Phosphorylation of Rac1 at a putative Akt site (Ser71) may limit Rac1 activity through inhibition of GTP binding. Rac2 is expressed in cells of hematopoietic origin, while Rac3 is highly expressed in brain and in many other tissues. The Vav family of guanine-nucleotide exchange factors mediates activation of Rho/Rac family small GTPases. Negative regulation of Rho-activity members of the p190 RhoGAP family (p190-A and p190-B) may be controlled by Src phosphorylation of Tyr residues, activating the p190 GAP domain. Furthermore, Rho GDP dissociation inhibitor (RhoGDI) associates with Rho/Rac to negatively regulate nucleotide exchange membrane localization.

PRODUCT INCLUDES

Cat No.	Product name	Quantity	Applications	Reactivity	Host
A340148	CDC42 Polyclonal Antibody	20µL	WB, ELISA	Human, Mouse, Rat	Rabbit
A340654	RAC1/2/3/CDC42 Polyclonal Antibody	20µL	WB, IHC, ELISA	Human, Mouse, Rat	Rabbit
A340662	RHOA Polyclonal Antibody	20µL	WB, IHC, ELISA	Human, Mouse, Rat	Rabbit
A340113	RHOB Polyclonal Antibody	20µL	WB, ELISA	Human, Mouse, Rat	Rabbit
A340147	RHOC Polyclonal Antibody	20µL	WB, ELISA	Human, Mouse	Rabbit
A1013s	Goat Anti-Rabbit IgG (H+L) (peroxidase/HRP conjugated)	120µL	WB, ELISA	Rabbit	Goat

PRODUCT USE LIMITATION

These products are intended for research use only.