ARHGDIA Polyclonal Antibody

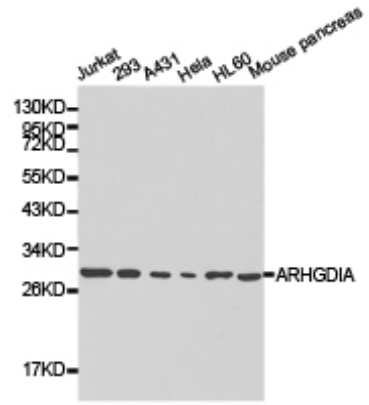
E91214

Catalog Number: E91214
Amount: 100ul
Background: Rho family small GTPases, including Rho, Rac and cdc42, act as molecular switches, regulating processes such as cell migration, adhesion, proliferation and differentiation. They are activated by guanine nucleotide exchange factors (GEFs), which catalyze the exchange of bound GDP for GTP, and inhibited by GTPase activating proteins (GAPs), which catalyze the hydrolysis of GTP to GDP. A third level of regulation is provided by the stoichiometric binding of Rho GDP dissociation inhibitor (RhoGDI). RhoGDI affects Rho activity by inhibiting nucleotide exchange and membrane association, regulating activity and localization (Reviewed in 1, 2). The inhibitory and shuttling functions of RhoGDI have been uncoupled using mutant forms of RhoGDI (3). Phosphorylation of GDIs and/or GTPases can modulate their affinity for each other and, therefore, GTPase mediated signaling. PAK1 phosphorylation of RhoGDI at serines 101 and 174 causes release and activation of Rac1, but not RhoA (4).
Species: Rabbit
Isotype: IgG
Storage/Stability: Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Synonyms: ARHGDIA;GDIA1;MGC117248;RHOGDI;RHOGDI-1 ;
Immunogen: Recombinant proteinof human ARHGDIA
Purification: Affinity purification
Reactivity: H M R
Applications: WB IHC
Molecular Weight: 28kDa
Swiss-Prot No. : P52565
Gene ID: 396
References: 1. DerMardirossian, C. and Bokoch, G. (2005) Trends Cell Biol. 15, 356-363. 2.Dovas, A. and Couchman, J.R. (2005) RhoGDI: multiple functions in the regulation of Rho familyGTPase activities. Biochem. J. 390, 1-9. 3. Dransart, E. et al. (2005) J. Biol. Chem. 280, 4674-4683. 4. DerMardirossian, C. et al. (2004) Mol. Cell 15, 117-127.

For Research Use Only

WB 1:500 - 1:2000

IHC 1:50- 1:200



Western blot analysis of extracts of various cell lines, using ARHGDIA antibody.

For Research Use Only