

Recombinant Human ARHGDIB Protein Data Sheet

Catalog #	hRP-A0476-EF012
Size	100 µg
Protein Name	Human rho GDP-dissociation inhibitor 2
Protein Symbol	ARHGDIB
Original Source	<i>Homo sapiens</i>
Expression System	<i>E.coli</i>
GenBank Accession #	NM_001175.1
Uniprot Accession #	P52566
Description	Rho GDP-dissociation inhibitor 2 Regulates the GDP/GTP exchange reaction of the Rho proteins by inhibiting the dissociation of GDP from them, and the subsequent binding of GTP to them. Members of the Rho (or ARH) protein family (see MIM 165390) and other Ras-related small GTP-binding proteins (see MIM 179520) are involved in diverse cellular events, including cell signaling, proliferation, cytoskeletal organization, and secretion. The GTP-binding proteins are active only in the GTP-bound state. At least 3 classes of proteins tightly regulate cycling between the GTP-bound and GDP-bound states: GTPase-activating proteins (GAPs), guanine nucleotide-releasing factors (GRFs), and GDP-dissociation inhibitors (GDIs). The GDIs, including ARHGDIB, decrease the rate of GDP dissociation from Ras-like GTPases.
Application	WB, ELISA, IP, antibody production, protein array
Fusion tag	N-His
Peptide Length	216aa(including fusion tag)
Molecular Weight	24.9kDa(including fusion tag)
pI	5.8
Activity	NA
Storage	Storage buffer: 20mM Tris.Cl, 50mM NaCl, 50% Glycerol, pH8.0. Store at -80°C and avoid repeated freeze-thaw cycles.
	
Reference:	• The Hematopoietic Cell-Specific Rho GTPase Inhibitor ARHGDIB/D4GDI Limits HIV Type 1 Replication • Loss of expression of LyGDI (ARHGDIB), a rho GDP-dissociation inhibitor, in Hodgkin lymphoma • Defective chemokine-directed lymphocyte migration and development in the absence of Rho guanosine diphosphate-dissociation inhibitors alpha and beta • Vav1 and Ly-GDI two regulators of Rho GTPases, function cooperatively as signal transducers in T cell antigen receptor-induced pathways • Immune responses in mice deficient in Ly-GDI, a lymphoid-specific regulator of Rho GTPases • Rho guanine dissociation inhibitors: pivotal molecules in cellular signalling

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