## 564

## **RhoGDI Antibody**



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity: H M R B	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 26	<b>Source/Isotype:</b> Rabbit	UniProt ID: #P52565	Entrez-Gene Id: 396	
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Sensitivity		RhoGDI Antibody detects endogenous levels of total RhoGDI protein.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to human RhoGDI. Antibodies are purified by protein A and peptide affinity chromatography.					
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).					
Background References		1. DerMardirossian, C. and Bokoch, G.M. (2005) <i>Trends Cell Biol</i> 15, 356-63. 2. Dovas, A. and Couchman, J.R. (2005) <i>Biochem J</i> 390, 1-9. 3. Dransart, E. et al. (2005) <i>J Biol Chem</i> 280, 4674-83. 4. DerMardirossian, C. et al. (2004) <i>Mol Cell</i> 15, 117-27.					
Species Reactiv	vity	Species reactivity is de	etermined by testing	g in at least one approv	ed application (e.g.,	western blot).	
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Key		W: Western Blotting					
Cross-Reactivity Key		H: Human M: Mouse R: Rat B: Bovine					
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.					
		All other trademarks a more information.	are the property of	their respective owners.	. Visit cellsignal.com	ı/trademarks for	
Limited Uses		the following terms ap terms and conditions	t as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, illowing terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's and conditions that are in addition to, or different from, those contained herein, unless ately accepted in writing by a legally authorized representative of CST, are rejected and are of no or effect.				
			vith For Research U	se Only or a similar labe	_	l have not been	

approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a

component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.