## p115 RhoGEF (D25D2) XP® Rabbit mAb



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.

<b>Applications:</b> W, IP, IF-IC	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 115	Source/Isotype: Rabbit	UniProt ID: #Q92888	Entrez-Gene Id: 9138	
Product Usage		Application			Dilution	
Information		Western Blotting			1:1000	
		Immunoprecipitation			1:50	
		Immunofluorescence (I	mmunocytochemistry)		1:50	
Storage Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/m 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.					SA, 50% glycerol and less than	
Specificity/Sensitivity		p115 RhoGEF (D25D2) XP <sup>®</sup> Rabbit mAb detects endogenous levels of total p115 RhoGEF protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human p115 RhoGEF.				
processes such as o guanine nucleotide inhibited by GTPase level of regulation is (1). G-protein coupled r GTPases such as Rh and its family mem thus couple signalir			GTPases, including Rho, Rac and cdc42, act as molecular switches, regulating Il migration, adhesion, proliferation and differentiation. They are activated by xchange factors (GEFs), which catalyze the exchange of bound GDP for GTP, and activating proteins (GAPs), which catalyze the hydrolysis of GTP to GDP. A third provided by the stoichiometric binding of Rho GDP dissociation inhibitor (RhoGDI) ceptors (GPCRs) at the cell surface signal through heteromeric G proteins to small , which then signal to downstream effector molecules (2). p115 RhoGEF/ArhGEF1 ers PDZ-RhoGEF (PRG), and LARG are stimulated by heteromeric G proteins and prom GPCRs to Rho small GTPases (3-6). In a mouse model of asthma, p115 for T cells to enable airway inflammation and hyperreactivity (7).			
Background Ref	erences	<ol> <li>DerMardirossian, C. and Bokoch, G.M. (2005) Trends Cell Biol 15, 356-63.</li> <li>Morris, A.J. and Malbon, C.C. (1999) Physiol Rev 79, 1373-430.</li> <li>Chen, Z. et al. (2003) J Biol Chem 278, 9912-9.</li> <li>Hart, M.J. et al. (1998) Science 280, 2112-4.</li> <li>Kozasa, T. et al. (1998) Science 280, 2109-11.</li> <li>Bhattacharyya, R. and Wedegaertner, P.B. (2003) Biochem J 371, 709-20.</li> <li>Brown, J.P. et al. (2007) Am J Respir Crit Care Med 176, 10-9.</li> </ol>				

**Species Reactivity** 

Species reactivity is determined by testing in at least one approved 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  $4^{\circ}$ C with gentle shaking, overnight.

**Applications Key** 

W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

**Trademarks and Patents** 

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

XP is a registered trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

**Limited Uses** 

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and 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.

Orders: 877-616-CELL (2355) • orders@cellsignal.com • Support: 877-678-TECH (8324) • info@cellsignal.com • Web: cellsignal.com For Research Use Only. Not for Use in Diagnostic Procedures.