RhoA (67B9) Rabbit mAb



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Applications: V, W-S, IHC-P, IF-IC	Reactivity: H M R Mk B	Sensitivity: Endogenous	MW (kDa): 21	Source/Isotype: Rabbit IgG	UniProt ID: #P61586	Entrez-Gene Id 387
Product Usage		Application			Dilution	
Information		Western Blotting			1:1000	
		Simple Western™			1	:50 - 1:250
		Immunohistochemist	ry (Paraffin)		1	:800
		Immunofluorescence	(Immunocytochem	nistry)	1	:200
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
		For a carrier free (BSA and azide free) version of this product see product #60382.				
Specificity/Sensitivity		RhoA (67B9) Rabbit mAb recognizes endogenous levels of total RhoA protein. The antibody does not recognize the related proteins RhoB or RhoC.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with synthetic peptides corresponding to residues near the carboxy terminus of human RhoA.				
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) (1). RhoA, RhoB and RhoC are highly homologous, but appear to have divergent biological functions. Carboxy-terminal modifications and differences in subcellular localization allow these three proteins to respond to and act on distinct signaling molecules (2,3).				
		Functions of RhoA, the most highly studied of these three, include regulation of actomyosin contractility (4), cytokinesis (5), focal adhesion assembly (6) and cell polarity (7).				
Background References		1. DerMardirossian, C. and Bokoch, G.M. (2005) <i>Trends Cell Biol</i> 15, 356-63. 2. Wennerberg, K. and Der, C.J. (2004) <i>J Cell Sci</i> 117, 1301-12. 3. Wheeler, A.P. and Ridley, A.J. (2004) <i>Exp Cell Res</i> 301, 43-9. 4. Bi, D. et al. (2005) <i>Circ Res</i> 96, 890-7. 5. Kimura, K. et al. (2000) <i>J Biol Chem</i> 275, 17233-6. 6. Barry, S.T. and Critchley, D.R. (1994) <i>J Cell Sci</i> 107 (Pt 7), 2033-45. 7. Van Keymeulen, A. et al. (2006) <i>J Cell Biol</i> 174, 437-45.				
Species Reactivi	ty	Species reactivity is de	etermined by testin	g in at least one approve	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 **W-S:** Simple Western[™] **IHC-P:** Immunohistochemistry (Paraffin) **IF-IC:**

Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human M: Mouse R: Rat Mk: Monkey B: Bovine

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