Store at -20C

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

RhoB (D1J9V) Rabbit mAb

Applications: W, IHC-P, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 21	Source/Isotype: Rabbit IgG	UniProt ID: #P62745	Entrez-Gene Id: 388
Product Usage Information		Application Western Blotting Immunohistochemist Immunofluorescence		istry)		Dilution 1:1000 1:600 1:800
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.				
Specificity/Sensitivity		RhoB (D1J9V) Rabbit mAb recognizes endogenous levels of total RhoB protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His126 of human RhoB protein.				
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).				
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.				
Species Reactivi	ty	Species reactivity is de	etermined by testing	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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)				
Cross-Reactivity Key		H: Human M: Mouse R: Rat				
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