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RhoB Antibody



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Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 21	Source: Rabbit	UniProt ID: #P62745	Entrez-Gene Id: 388	
Product Usage Information	Ap	Application			Dilution		
	We	Western Blotting			1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at $-$ 20°C. Do not aliquot the antibody.					
Specificity / Sens		RhoB Antibody detects endogenous levels of total RhoB protein. The antibody does not cross-react with RhoA or RhoC.					
Source / Purificat	resi	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human RhoB. Antibodies are purified using protein A and peptide affinity chromatography.					
Background	proc nucl GTF is pr Rho	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					

RhoB functions in the regulation of cell shape, migration and adhesion (4). RhoB activity has also been shown to play a role in protein trafficking (5,6) and in CXCR2-mediated chemotaxis (6). Inhibition of RhoB activity downstream of PKCı influences the degree of invasion and migration by glioblastoma cells (7), and RhoB expression has a negative affect on tumor growth in ovarian cancer (8).

Background References

- 1. DerMardirossian, C. and Bokoch, G.M. (2005) Trends Cell Biol 15, 356-63.
- 2. Wennerberg, K. and Der, C.J. (2004) J Cell Sci 117, 1301-12.
- 3. Wheeler, A.P. and Ridley, A.J. (2004) Exp Cell Res 301, 43-9.
- 4. Wheeler, A.P. and Ridley, A.J. (2007) Exp Cell Res 313, 3505-16.
- 5. Sandilands, E. et al. (2007) J Cell Sci 120, 2555-64.
- 6. Neel, N.F. et al. (2007) J Cell Sci 120, 1559-71.

distinct signaling molecules (2,3).

- 7. Baldwin, R.M. et al. (2008) Oncogene 27, 3587-95.
- 8. Couderc, B. et al. (2008) Cancer Gene Ther 15, 456-64.

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°C with gentle shaking, overnight.

Applications Key WB: Western Blotting

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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