

#5617 Store at -20C

Phospho-ARHGAP42 (Tyr376) (D45E9) Rabbit mAb



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M Mk	Endogenous	125	Rabbit IgG	#A6NI28	143872

Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:100
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	Phospho-ARHGAP42 (Tyr376) (D45E9) Rabbit mAb detects endogenous levels of ARHGAP42 only when phosphorylated at Tyr376.	
Species predicted to react based on 100% sequence homology:	Rat	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr376 of human ARHGAP42 protein.	
Background	ARHGAP family members activate Rho GTPase proteins (1). Mutations of ARHGAP family genes lead to carcinogenesis through the dysregulation of Rho/Rac/Cdc42-like GTPases (2). Little is known about the biological function of ARHGAP42, a member of the ARHGAP family. ARHGAP42 contains a RhoGAP domain in the middle of its sequence, an SH3 binding domain at the C-terminal end of the protein sequence, as well as a BAR domain and a PH domain in the N-terminal region of the sequence, which indicate that the protein may function as GTPase activator and cytoskeletal adaptor.	
Background References	1. Katoh, M. and Katoh, M. (2004) <i>Int J Mol Med</i> 14, 333-8. 2. Katoh, M. and Katoh, M. (2004) <i>Int J Oncol</i> 25, 1201-6.	

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 IP: Immunoprecipitation
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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