

Store at -20C  
#5617**Phospho-ARHGAP42 (Tyr376) (D45E9)  
Rabbit mAb**
**Orders:** 877-616-CELL (2355)  
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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, 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) *Int J Mol Med* 14, 333-8.
2. Katoh, M. and Katoh, M. (2004) *Int J Oncol* 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****W:** Western Blotting **IP:** Immunoprecipitation**Cross-Reactivity Key****H:** Human **M:** Mouse **Mk:** Monkey**Trademarks and Patents**

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