## រត្ត ស្តី IQGAP1 (D6E3J) Rabbit mAb





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Applications: W, IP, IF-IC	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 195	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P46940	Entrez-Gene Id: 8826		
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation Immunofluorescence		istry)		<b>Dilution</b> 1:1000 1:100 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		IQGAP1 (D6E3J) Rabbit mAb recognizes endogenous levels of total IQGAP1 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val1272 of human IQGAP1 protein.						
Background		IQGAPs are scaffolding proteins involved in mediating cytoskeletal function. They contain multiple protein interaction domains and bind to a growing number of molecules including actin, myosin light chain, calmodulin, E-cadherin, and $\beta$ -catenin (reviewed in 1). Through their GAP-related domains, they bind the small GTPases Rac1 and cdc42. IQGAPs lack GAP activity, however, and regulate small GTPases by stabilizing their GTP-bound (active) forms (2,3). Research studies have shown that the function and distribution of the IQGAP proteins widely vary. IQGAP1 is ubiquitously expressed and has been found to interact with APC (4) and the CLIP170 complex (5) in response to small GTPases, promoting cell polarization and migration. Additional research studies have suggested that IQGAP1 could play a part in the invasiveness of some cancers (6-8). IQGAP2, which is about 60% identical to IQGAP1, is expressed primarily in liver (3), but lower levels have been detected in the prostate, kidney, thyroid, stomach, and testis (9,10). Research studies have shown that IQGAP2 displays tumor suppressor properties (7). Less is known about the function of IQGAP3, but this protein is present in the lung, brain, small intestine, and testis (9) and is only expressed in proliferating cells (11), suggesting a role in cell growth and division.						
Background Re	eferences	<ul> <li>1. Briggs, M.W. and Sacks, D.B. (2003) <i>EMBO Rep</i> 4, 571-4.</li> <li>2. Ho, Y.D. et al. (1999) <i>J Biol Chem</i> 274, 464-70.</li> <li>3. Brill, S. et al. (1996) <i>Mol Cell Biol</i> 16, 4869-78.</li> <li>4. Watanabe, T. et al. (2004) <i>Dev Cell</i> 7, 871-83.</li> <li>5. Fukata, M. et al. (2002) <i>Cell</i> 109, 873-85.</li> <li>6. Chew, C.S. et al. (2005) <i>Am J Physiol Gastrointest Liver Physiol</i> 288, G376-87.</li> <li>7. Jin, S.H. et al. (2008) <i>Int J Cancer</i> 122, 1040-6.</li> <li>8. Liu, Z. et al. (2007) <i>J Cell Sci</i> 120, 567-77.</li> <li>10. Schmidt, V.A. et al. (2003) <i>Blood</i> 101, 3021-8.</li> <li>11. Nojima, H. et al. (2008) <i>Nat Cell Biol</i> 10, 971-8.</li> </ul>						
Species Reactiv	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	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 K	ey	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat Mk: Monkey						
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