

RCC2 (D14F3) Rabbit mAb

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Applications: W, IF-IC	Sensitivity: Endogenous	MW (kDa): 60	Source/Isotype: Rabbit IgG	UniProt ID: #Q9P258	Entrez-Gene Id: 55920
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Product Usage Information	Application	Dilution
	Western Blotting	1:1000
	Immunofluorescence (Immunocytochemistry)	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	RCC2 (D14F3) Rabbit mAb detects endogenous levels of total RCC2 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human RCC2 protein.	
Background	RCC2/TD-60 is a member of the RCC1 (regulator of chromosome condensation 1) family of guanine nucleotide exchange factors. RCC2/TD-60 is associated with the chromosome passenger complex (CPC), which also consists of aurora B kinase, borealin, INCENP (inner centromere protein) and survivin. The CPC acts at various stages of mitosis, interacts with microtubules and is required for proper chromosome segregation and cytokinesis. Regulation of aurora B kinase is key in the regulation of the CPC (reviewed in 1,2). In late mitosis, RCC2/TD-60 is required for spindle assembly and recruitment of survivin and aurora B (3). RCC2/TD-60 is also required for aurora B activation <i>in vitro</i> and localization of the CPC to centromeres (4).	
Background References	<ol style="list-style-type: none"> Vader, G. et al. (2006) <i>J Cell Biol</i> 173, 833-7. Ruchaud, S. et al. (2007) <i>Nat Rev Mol Cell Biol</i> 8, 798-812. Mollinari, C. et al. (2003) <i>Dev Cell</i> 5, 295-307. Rosasco-Nitcher, S.E. et al. (2008) <i>Science</i> 319, 469-72. 	

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	W: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)
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