

#3667 Store at -20C

RCC2 Antibody


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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IF-IC	H M R Mk	Endogenous	60	Rabbit	#Q9P258	55920

Product Usage Information	Application Western Blotting Immunofluorescence (Immunocytochemistry)	Dilution 1:1000 1:200
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	RCC2 Antibody detects endogenous levels of total RCC2 protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human RCC2.	
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	1. Vader, G. et al. (2006) <i>J Cell Biol</i> 173, 833-7. 2. Ruchaud, S. et al. (2007) <i>Nat Rev Mol Cell Biol</i> 8, 798-812. 3. Mollinari, C. et al. (2003) <i>Dev Cell</i> 5, 295-307. 4. 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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)
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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