

#5104 Store at -20°C

## RCC2 (D14F3) Rabbit mAb



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

### Product Usage Information

#### Application

Western Blotting  
Immunofluorescence (Immunocytochemistry)

#### 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

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 *in vitro* and localization of the CPC to centromeres (4).

### Background References

1. Vader, G. et al. (2006) *J Cell Biol* 173, 833-7.
2. Ruchaud, S. et al. (2007) *Nat Rev Mol Cell Biol* 8, 798-812.
3. Mollinari, C. et al. (2003) *Dev Cell* 5, 295-307.
4. Rosasco-Nitcher, S.E. et al. (2008) *Science* 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

**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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