



Qty: 100 µg/400 µl

Rabbit anti-CUL2

Catalog No. 51-1800

Lot No. See product label

## Rabbit anti-CUL2

### FORM

This polyclonal antibody is supplied as a 400 µL aliquot at 0.25 mg/ml in phosphate buffered saline (pH 7.4) containing 0.1% sodium azide. The antibody is epitope affinity-purified from rabbit antiserum.

### POLYCLONAL ANTIBODY DESIGNATION (PAD): CT2

### IMMUNOGEN

Synthetic peptide derived from the C-terminus of the human CUL2.

### SPECIFICITY

This antibody is specific for the ~83 kDa CUL2 protein and does not cross react with the related CUL1 protein. Antibody reactivity has been confirmed by Western blotting and immunoprecipitation using both recombinant CUL2 protein and cell lysates.

### REACTIVITY

This antibody reacts with human CUL-2. Reactivity with other species has not been tested.

SAMPLE	ELISA	Immuno-precipitation* (native)	Western Blotting*
Human		+	+
Immunogen	+		

\*Tested with Jurkat cell lysates.

### USAGE

Working concentrations for specific applications should be determined by the investigator. Optimal dilutions will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. We recommend the following ranges as starting points for this product.

**ELISA:** 0.1-1.0 µg/ml

**Western Blotting:** 1-3 µg/ml

**Immunoprecipitation:** 5-10 µg

### BACKGROUND

In yeast, proteolysis of G1 cell cycle regulatory proteins is controlled by a ubiquitin ligase formed by three subunits: Cdc53 (also known as CulA), Skp1 and one of many F-box proteins (reviewed in ref 2). A family of human cullin genes homologous to the *S. cerevisiae* cdc53 gene has been identified (*cul1, 2, 3, 4a, 4b, and 5*)<sup>(1)</sup>. It was then shown that Cul1 forms a complex with human Skp1 and the F box protein Skp2. In contrast, Cul2 does not associate with Skp1 and Skp2. Instead it forms a complex with an inactive transcriptional elongation complex, SIII, formed by three subunits: Elongin C, Elongin B and VHL<sup>(2)</sup>. The meaning of this association is still unknown. Intriguingly, Elongin C shows homology with Skp1 and Elongin B with ubiquitin. In addition, in its active form, SIII contains, instead of VHL, an F box protein: Elongin A.

### STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long term storage. Avoid repeated freezing and thawing.

(51-1800 cont'd)

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**REFERENCES**

1. Kipreos, E.T., et al; *Cell* 85:829-839 (1996).
2. Pause, et al, *Proc. Natl. Acad. Sci. U.S.A.*, 94:2156:2161 (1997).
3. Pagano, M., *FASEB J.* 11:1067-1075 (1997).

**RELATED PRODUCTS**

<b><i>Product</i></b>	<b><i>Conjugate</i></b>	<b><i>Cat. No.</i></b>
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	TRITC	81-6114
	Cy™3	81-6115
	Cy™5	81-6116
	HRP	81-6120
	AP	81-6122
	Biotin	81-6140
Protein A	Sepharose® 4B	10-1041
rec-Protein G	Sepharose® 4B	10-1241

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