

## Rbx2 (H-62): sc-292565

### BACKGROUND

Rbx1 (also designated ROC1 and Hrt1) and the closely related protein Rbx2 (also designated ROC2) are RING finger containing homologs of the yeast protein APC11, a member of the anaphase-promoting complex (APC). Rbx1 was shown to be a component of the von Hippel-Lindau (VHL) transcription elongation complex, which includes VHL, Elongin B, Elongin C and Cullin-2. Rbx1 interacts with Cullin-1 in the SCF (Skp1-Cdc53-F-box protein) ubiquitin ligase complex. Rbx1 functions as a common subunit of SCF complexes required for ubiquitination of various proteins including yeast G<sub>1</sub> cyclins, IκB-α and β-catenin. Rbx1 was shown to enhance the ubiquitin ligase activity of the VHL/Cullin-2 complex, and of the SCF/Cullin-1 complex.

### REFERENCES

1. Kamura, T., et al. 1999. Rbx1, a component of the VHL tumor suppressor complex and SCF ubiquitin ligase. *Science* 284: 657-661.
2. Tan, P., et al. 1999. Recruitment of a ROC1-CUL1 ubiquitin ligase by Skp1 and HOS to catalyze the ubiquitination of IκB-α. *Mol. Cell* 3: 527-533.
3. Ohta, T., et al. 1999. ROC1, a homolog of APC11, represents a family of cullin partners with an associated ubiquitin ligase activity. *Mol. Cell* 3: 535-541.

### CHROMOSOMAL LOCATION

Genetic locus: RNF7 (human) mapping to 3q23; Rnf7 (mouse) mapping to 9 E3.3.

### SOURCE

Rbx2 (H-62) is a rabbit polyclonal antibody raised against amino acids 52-113 mapping at the C-terminus of Rbx2 of human origin.

### PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

### APPLICATIONS

Rbx2 (H-62) is recommended for detection of Rbx2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Rbx2 (H-62) is also recommended for detection of Rbx2 in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for Rbx2 siRNA (h): sc-44073, Rbx2 siRNA (m): sc-152767, Rbx2 shRNA Plasmid (h): sc-44073-SH, Rbx2 shRNA Plasmid (m): sc-152767-SH, Rbx2 shRNA (h) Lentiviral Particles: sc-44073-V and Rbx2 shRNA (m) Lentiviral Particles: sc-152767-V.

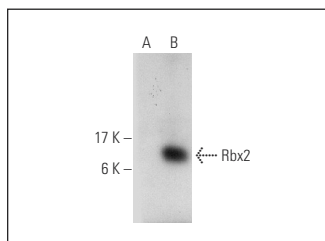
Molecular Weight of Rbx2: 14 kDa.

Positive Controls: Rbx2 (h): 293 Lysate: sc-110905.

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

### DATA



Rbx2 (H-62): sc-292565. Western blot analysis of Rbx2 expression in non-transfected: sc-110760 (A) and human Rbx2 transfected: sc-110905 (B) 293 whole cell lysates.

### STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

### RESEARCH USE

For research use only, not for use in diagnostic procedures.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **Rbx2 (G-8): sc-166554**, our highly recommended monoclonal alternative to Rbx2 (H-62).