**BACKGROUND**

Rbx1 (also designated ROC1 and Hr1) 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 ubiquination of various proteins including yeast G1 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**


**CHROMOSOMAL LOCATION**

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

**SOURCE**

Rbx2 (G-8) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 1-25 at the N-terminus of Rbx2 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG2k kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Rbx2 (G-8) is available conjugated to agarose (sc-166554 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-166554 HRP), 200 µg/ml, for WB, IHC(P) and ELISA, to either phycoerythrin (sc-166554 PE), fluorescein (sc-166554 FITC), Alexa Fluor® 488 (sc-166554 AF488), Alexa Fluor® 546 (sc-166554 AF546), Alexa Fluor® 594 (sc-166554 AF594) or Alexa Fluor® 647 (sc-166554 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM, and to either Alexa Fluor® 680 (sc-166554 AF680) or Alexa Fluor® 790 (sc-166554 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-166554 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

**APPLICATIONS**

Rbx2 (G-8) is recommended for detection of Rbx2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).


Molecular Weight of Rbx2: 14 kDa.

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

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:


**DATA**

Rbx2 (G-8): sc-166554. 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 for detailed protocols and support products.