



Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

RBX1 Antibody

Store at -20C
#4397

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

Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 13	Source/Isotype: Rabbit	UniProt ID: #P62877	Entrez-Gene Id: 9978
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Product Usage Information

Application

Western Blotting

Dilution

1:1000

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

RBX1 Antibody detects endogenous levels of total RBX1 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human RBX1 protein. Antibodies were purified by protein A and peptide affinity chromatography.

Background

RING-box protein 1 (RBX1 or ROC1) is an essential component of two distinct but structurally related E3 ubiquitin ligase complexes, the SCF complex and the CBC (VHL) complex (1). RBX1 mediates the neddylation of CUL1, which activates SCF E3 ligase by facilitating the ubiquitin transfer from E2 to substrates (2-4). The RING finger domain of RBX1 is required for ubiquitin ligation (5). Two evolutionarily conserved mammalian RBX family members, RBX1/ROC1 and RBX2/ROC2/SAG, have been identified (5). RBX1 is constitutively expressed and binds to CUL2/VHL, while stress-inducible RBX2 binds to CUL5/SOCS (6).

Background References

1. Zheng, N. et al. (2002) *Nature* 416, 703-9.
2. Kamura, T. et al. (1999) *Genes Dev* 13, 2928-33.
3. Morimoto, M. et al. (2003) *Biochem Biophys Res Commun* 301, 392-8.
4. Pan, Z.Q. et al. (2004) *Oncogene* 23, 1985-97.
5. Sun, Y. et al. (2001) *Antioxid Redox Signal* 3, 635-50.
6. Gu, Q. et al. (2007) *Cancer Res* 67, 3616-25.

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

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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