Revision 6

Store at -20C

#11922

# RBX1 (D3J5I) Rabbit mAb

Cell Signaling TECHNOLOGY®

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

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source/Isotype: | UniProt ID: | Entrez-Gene Id: |
|---|---|---|---|---|---|---|
| W, IP, IHC-P | H M R Mk | Endogenous | 13 | Rabbit IgG | #P62877 | 9978 |

## Product Usage Information

| Application | Dilution |
|---|---|
| Western Blotting | 1:1000 |
| Immunoprecipitation | 1:50 |
| Immunohistochemistry (Paraffin) | 1:1200 - 1:4800 |

## 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.

For a carrier free (BSA and azide free) version of this product see product #66552.

## Specificity/Sensitivity

RBX1 (D3J5I) Rabbit mAb recognizes endogenous levels of total RBX1 protein.

## Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human RBX1 protein.

## 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

## Applications Key

**W:** Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin)

## Cross-Reactivity Key

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

## Trademarks and Patents



## Limited Uses

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