

RBX1 polyclonal antibody

Catalog # PAB10233 Size 100 uL

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of RBX1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to amino acids 94-108 of human RBX1.
Host	Rabbit
Reactivity	Human, Mouse
Specificity	Cross reactivity may also occur with ROC1 from other sources. Sufficient sequence differences exist to suggest that this antibody would not react with other RING box proteins such as ROC2 and APC11.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:2000-1:10000) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In antiserum (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot
- Immunohistochemistry
- Enzyme-linked Immunoabsorbent Assay

Gene Info — RBX1

Entrez GeneID	9978
Protein Accession#	NP_055063:P62877
Gene Name	RBX1
Gene Alias	BA554C12.1, MGC13357, MGC1481, RNF75, ROC1
Gene Description	ring-box 1
Omim ID	603814
Gene Ontology	Hyperlink
Gene Summary	This gene encodes an evolutionarily conserved protein that interacts with cullins. The protein plays a unique role in the ubiquitination reaction by heterodimerizing with cullin-1 to catalyze ubiquitin polymerization. It also may be involved in the regulation of protein turn-over. [provided by RefSeq]
Other Designations	OTTHUMP00000028983 RING box protein 1 RING finger protein ZYP protein regulator of cullins 1

Publication Reference

- [The CUL1 C-terminal sequence and ROC1 are required for efficient nuclear accumulation, NEDD8 modification, and ubiquitin ligase activity of CUL1.](#)

Furukawa M, Zhang Y, McCarville J, Ohta T, Xiong Y.
Molecular and Cellular Biology 2000 Nov; 20(21):8185.

Application: IF, Human, U2OS cells
- [Cdc53/cullin and the essential Hrt1 RING-H2 subunit of SCF define a ubiquitin ligase module that activates the E2 enzyme Cdc34.](#)

Seol JH, Feldman RM, Zachariae W, Shevchenko A, Correll CC, Lyapina S, Chi Y, Galova M, Claypool J, Sandmeyer S, Nasmyth K, Deshaies RJ, Shevchenko A, Deshaies RJ.
Genes & Development 1999 Jun; 13(12):1614.
- [Reconstitution of G1 cyclin ubiquitination with complexes containing SCFGrr1 and Rbx1.](#)

Skowyra D, Koepp DM, Kamura T, Conrad MN, Conaway RC, Conaway JW, Elledge SJ, Harper JW.
Science 1999 Apr; 285(5414):662.

- [Rbx1, a component of the VHL tumor suppressor complex and SCF ubiquitin ligase.](#)

Kamura T, Koepp DM, Conrad MN, Skowra D, Moreland RJ, Iliopoulos O, Lane WS, Kaelin WG Jr, Elledge SJ, Conaway RC, Harper JW, Conaway JW.

Science 1999 Apr; 285(5414):657.

- [Recruitment of a ROC1-CUL1 ubiquitin ligase by Skp1 and HOS to catalyze the ubiquitination of I kappa B alpha.](#)

Tan P, Fuchs SY, Chen A, Wu K, Gomez C, Ronai Z, Pan ZQ.

Molecular Cell 1999 Apr; 3(4):527.

- [ROC1, a homolog of APC11, represents a family of cullin partners with an associated ubiquitin ligase activity.](#)

Ohta T, Michel JJ, Schottelius AJ, Xiong Y.

Molecular Cell 1999 Apr; 3(4):535.

Pathway

- [Cell cycle](#)
- [Nucleotide excision repair](#)
- [Pathways in cancer](#)
- [Renal cell carcinoma](#)
- [TGF-beta signaling pathway](#)
- [Ubiquitin mediated proteolysis](#)
- [Wnt signaling pathway](#)