

Rabbit RBX1 Polyclonal Antibody | anti-RBX1 antibody

RBX1 Antibody

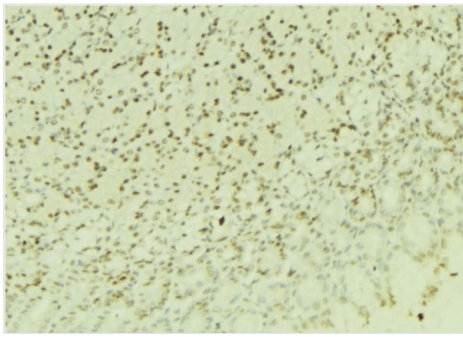
CATALOG # AAA326410	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

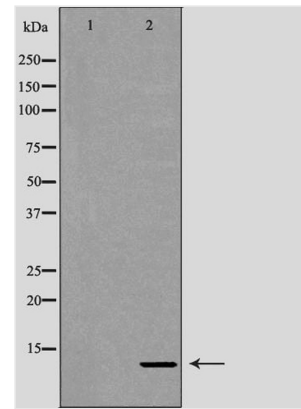
RBX1; Polyclonal Antibody; RBX1 Antibody; BA554C12.1; E3 ubiquitin-protein ligase RBX1; FLJ60363; MGC13357; MGC1481; OTTHUMP00000028983; Protein ZYP; Rbx 1; Rbx1; RBX1_HUMAN; Regulator of cullins 1; Ring box 1; Ring box 1 E3 ubiquitin protein ligase; RING box protein 1; RING finger protein 75; RING finger protein; RING-box protein 1; Ringbox protein 1; RNF 75; RNF75; ROC 1; ZYP protein; anti-RBX1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	RBX1 antibody detects endogenous levels of total RBX1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	108
Applicable Applications for anti-RBX1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human RBX1
Subcellular Location	Cytoplasm. Nucleus.
Tissue Specificity	Widely expressed.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

**IHC (Immunohistochemistry)**

AAA326410 at 1/100 staining Human gastric tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

**WB (Western Blot)**

Western blot analysis of HeLa whole cell lysates, using RBX1 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-RBX1 antibody

Description: 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).

Function: E3 ubiquitin ligase component of multiple cullin-RING-based E3 ubiquitin-protein ligase (CRLs) complexes which mediate the ubiquitination and subsequent proteasomal degradation of target proteins, including proteins involved in cell cycle progression, signal transduction, transcription and transcription-coupled nucleotide excision repair. CRLs complexes and ARIH1 collaborate in tandem to mediate ubiquitination of target proteins, ARIH1 mediating addition of the first ubiquitin on CRLs targets (PubMed:27565346). The functional specificity of the E3 ubiquitin-protein ligase complexes depends on the variable substrate recognition components. As a component of the CSA complex promotes the ubiquitination of ERCC6 resulting in proteasomal degradation. Through the RING-type zinc finger, seems to recruit the E2 ubiquitination enzyme, like CDC34, to the complex and brings it into close proximity to the substrate. Probably also stimulates CDC34 autoubiquitination. May be required for histone H3 and histone H4 ubiquitination in response to ultraviolet and for subsequent DNA repair. Promotes the neddylation of CUL1, CUL2, CUL4 and CUL4 via its interaction with UBE2M. Involved in the ubiquitination of KEAP1, ENC1 and KLHL41. In concert with ATF2 and CUL3, promotes degradation of KAT5 thereby attenuating its ability to acetylate and activate ATM.

Subunit Structure: Part of a SCF complex consisting of CUL1, RBX1, SKP1 and SKP2. Part of a SCF-like complex consisting of CUL7, RBX1, SKP1 and FBXW8. Part of CBC(VHL) complexes with elongin BC complex (ELOB and ELOC), CUL2 or CUL5 and VHL. Part of the CSA complex (DCX(ERCC8) complex), a DCX E3 ubiquitin-protein ligase complex containing ERCC8, RBX1, DDB1 and CUL4A; the CSA complex interacts with RNA polymerase II; upon UV irradiation it interacts with the COP9 signalosome and preferentially with the hyperphosphorylated form of RNA polymerase II. Part of multisubunit E3 ubiquitin ligase complexes with elongin BC complex (ELOB and ELOC), CUL2 and MED8; elongin BC complex (ELOB and ELOC), CUL5 and MUF1. Part of multisubunit complexes with elongin BC complex (ELOB and ELOC), elongin A/ELOA or SOCS1 or WSB1 and CUL5. Interacts directly with CUL1 and probably also with CUL2, CUL3, CUL4A, CUL4B, CUL5 and CUL7. Probably interacts with CDC34. Interacts with COPS6. Component of the DCX DET1-COP1 ubiquitin ligase complex at least composed of RBX1, DET1, DDB1, CUL4A and COP1. Part of an E3 ligase complex composed of RBX1, DDB1, DDB2 and CUL4A or CUL4B. Interacts with UBE2M. Part of a SCF complex consisting of CUL1, FBXO3, RBX1 and SKP1; this complex interacts with PML via FBXO3. Interacts with human adenovirus 5 E1A protein; this interaction inhibits RBX1-CUL1-dependent elongation reaction of ubiquitin chains by the SCF(FBW7) complex (PubMed:19679664). Component of the SCF(Cyclin F) complex consisting of CUL1, RBX1, SKP1 and CCNF. Identified in a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin ligase complex together with HINT1 and CDC34. Component of multiple BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complexes formed of CUL3, RBX1 and a variable BTB domain-containing protein. Part of the BCR(ENC1) complex containing ENC1. Part of the BCR(GAN) complex containing GAN. Part of the BCR(KLHL41) complex containing KLHL41. Part of the BCR(KEAP1) complex containing KEAP1. Interacts with DCUN1D3. Interacts with SESN1 and SESN2 (PubMed:23274085). Interacts with NOTCH2 (PubMed:29149593). **Similarity:** The RING-type zinc finger domain is essential for ubiquitin ligase activity. It coordinates an additional third zinc ion. Belongs to the RING-box family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	7657508
NCBI GeneID	9978
NCBI Accession #	NP_055063.1
NCBI GenBank Nucleotide #	NM_014248.3
UniProt Accession #	P62877; Q8N6Z8; Q9D1S2; Q9WUK9; Q9Y254; B2RDY1
Molecular Weight	Observed: 12 kDa Predicted: 13 kDa
NCBI Official Full Name	E3 ubiquitin-protein ligase RBX1
NCBI Official Synonym Full Names	ring-box 1
NCBI Official Symbol	RBX1
NCBI Official Synonym Symbols	ROC1; RNF75; BA554C12.1
NCBI Protein Information	E3 ubiquitin-protein ligase RBX1
UniProt Protein Name	E3 ubiquitin-protein ligase RBX1
UniProt Gene Name	RBX1
UniProt Synonym Gene Names	RNF75; ROC11 PublicationManual assertion based on opinion iniRef.1; Rbx1; ROC1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/rbx1-antibody-immunohistochemistry-western-blot-elisa/326410>