

Anti-ROC1 RBX1 Antibody

Catalog Number: A00524

About RBX1

ROC1 also known as RING-box protein 1, Rbx1, Regulator of cullins 1, RING finger protein 75, and ZYP protein, is a component of the SCF (SKP1-CUL1-F-box protein) and the CBC(VHL) (CUL2-elonging BC-VHL) E3 ubiquitin ligase complexes, which mediate the ubiquitination and subsequent proteasomal degradation of target proteins involved in cell cycle progression, signal transduction and transcription. ROC1 appears to recruit the E2 ubiquitination enzyme through the RING-type zinc finger in a manner similar to CDC34, and brings it into close proximity to the substrate. The RING-type zinc finger domain is essential for ubiquitin ligase activity. ROC1 probably also stimulates CDC34 autoubiquitination and promotes the neddylation of CUL1 and probably CUL2. ROC1 has a cytoplasmic and nuclear localization and is widely expressed in most tissues.

Overview

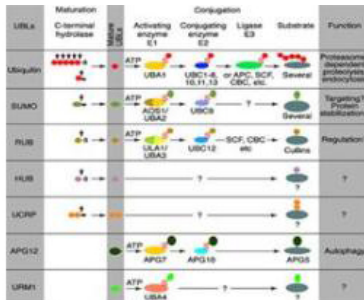
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| Product Name | Anti-ROC1 RBX1 Antibody |
| Reactive Species | Human |
| Description | Boster Bio Anti-ROC1 RBX1 Antibody (Catalog # A00524). Tested in WB applications. This antibody reacts with Human. |
| Application | WB |
| Clonality | Polyclonal |
| Formulation | 0.01% (w/v) Sodium Azide |
| Storage Instructions | Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.) |
| Host | Rabbit |
| Uniprot ID | P62877 |

Technical Details

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| Immunogen | This antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids 94-108 of Human ROC1 (C-terminal) coupled to KLH. |
| Predicted Reactive Species | Bovine, Sheep |
| Cross Reactivity | No cross reactivity with other proteins. |
| Isotype | Antiserum |

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|---------------------|--|
| Form | Liquid (sterile filtered) |
| Concentration | 85 mg/mL by Refractometry |
| Purification | This product is monospecific antiserum processed by delipidation and defibrination followed by sterile filtration. This product reacts with human, mouse, C.elegans and zebra fish ROC1. 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. |
| Suggested Dilutions | <p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>ELISA: 1:2,000 - 1:10,000</p> <p>IHC: User optimized</p> <p>WB: 1:500 - 1:1,000</p> |

Anti-ROC1 RBX1 Antibody (A00524) Images



Most modifiers mature by proteolytic processing from inactive precursors (a; amino acid). Arrowheads point to the cleavage sites. Ubiquitin is expressed either as polyubiquitin or as a fusion with ribosomal proteins. Conjugation requires activating (E1) and conjugating (E2) enzymes that form thioesters (S) with the modifiers. Modification of cullins by RUB involves SCF(SKP1/cullin-1/F-box protein) /CBC(cullin-2/elongin B/elonginC) -like E3 enzymes that are also involved in ubiquitination. In contrast to ubiquitin, the UBLs do not seem to form multi-UBL chains. UCRP(15G15) resembles two ubiquitin moieties linked head-to-tail. Whether HUB1 functions as a modifier is currently unclear. APG12 and URM1 are distinct from the other modifiers because they are unrelated in sequence to ubiquitin. Data contributed by S.Jentsch.

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