

Polyclonal Anti-ROC1 Picoband™ Antibody

Catalog Number: PB9798

Description

Gene Name	ring-box 1, E3 ubiquitin protein ligase
Recommended Protein Name	E3 ubiquitin-protein ligase RBX1
Lot No.	0971512Da4598116
Size	100µg/vial
Form	lyophilized
Ig type	Rabbit IgG
Specificity	No cross reactivity with other proteins.
Purification	Immunogen affinity purified.
Species	Reacts with: mouse, rat Predicted to work with: human
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human ROC1 (76-108aa NHAFFHFCISRWLKTRQVCPLDNREWEFQKYGH), identical to the related mouse sequence.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .

Application

	Concentration	Tested Species	Predicted Species	Antigen Retrieval
Western blot	0.1-0.5µg/ml	Ms, Rat	Hu	-

Tested Species: In-house tested species with positive results.

Predicted Species: Species predicted to be fit for the product based on sequence similarities.

Other applications have not been tested.

Optimal dilutions should be determined by end users.

Preparation and storage

Reconstitution: 0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage: At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time.

Avoid repeated freezing and thawing.

Relevant detection systems

Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1002 in WB.

Background

RING-box protein 1, also known as ROC1, is a protein that in humans is encoded by the RBX1 gene. This gene is mapped to chromosome 22q13.2 based on an alignment of the RBX1 sequence with the genomic sequence. ROC1 is recruited by cullin-1 to form a quaternary SCF (HOS)-ROC1 holoenzyme (with SKP1 and the BTRCP homolog HOS). SCF (HOS)-ROC1 binds IKK-beta-phosphorylated I-kappa-B-alpha and catalyzes its ubiquitination in the presence of ubiquitin, E1, and CDC34. Conclusively, ROC1 plays a unique role in the ubiquitination reaction by heterodimerizing with cullin-1 to catalyze ubiquitin polymerization.

Reference

1. "Entrez Gene: RBX1 ring-box 1".
2. Kamura T, Koepp DM, Conrad MN, Skowyra D, Moreland RJ, Iliopoulos O, Lane WS, Kaelin WG Jr, Elledge SJ, Conaway RC, Harper JW, Conaway JW (May 1999). "Rbx1, a component of the VHL tumor suppressor complex and SCF ubiquitin ligase". *Science* 284 (5414): 657–61.
3. Ohta T, Michel JJ, Schottelius AJ, Xiong Y (May 1999). "ROC1, a homolog of APC11, represents a family of cullin partners with an associated ubiquitin ligase activity". *Mol Cell* 3 (4): 535–41.