

RNF7 polyclonal antibody

Catalog # PAB10234 Size 100 uL

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of RNF7.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to amino acids 102-113 of human RNF7.
Host	Rabbit
Reactivity	Human, Mouse
Specificity	Cross reactivity may also occur with ROC2 from other sources. Sufficient sequence differences exist to suggest that this antibody would not react with other RING box proteins such as ROC1 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 — RNF7

Entrez GeneID [9616](#)

Protein Accession# [Q9UBF6;Q9UBF6](#)

Gene Name RNF7

Gene Alias CKBBP1, ROC2, SAG

Gene Description ring finger protein 7

Omim ID [603863](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene is a highly conserved ring finger protein. It is an essential subunit of SKP1-cullin/CDC53-F box protein ubiquitin ligases, which are a part of the protein degradation machinery important for cell cycle progression and signal transduction. This protein interacts with, and is a substrate of, casein kinase II (CSNK2A1/CKII). The phosphorylation of this protein by CSNK2A1 has been shown to promote the degradation of I κ B α (CHUK/I κ B α /IKK α) and p27Kip1(CDKN1B). Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq]

Other Designations OTTHUMP00000180645|regulator of cullins 2|sensitive to apoptosis, zinc RING finger protein SAG, regulator of cullins 2|zinc RING finger protein SAG

Publication Reference

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

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- [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, Skowyra 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

- [Ubiquitin mediated proteolysis](#)