

**产品名称: CUL-3 Rabbit Polyclonal Antibody**  
**产品货号: APRab09533**



## 产品概述 (Summary)

|                        |                                  |
|------------------------|----------------------------------|
| 产品名称 (Production Name) | CUL-3 Rabbit Polyclonal Antibody |
| 描述 (Description)       | Rabbit polyclonal Antibody       |
| 宿主 (Host)              | Rabbit                           |
| 应用 (Application)       | WB,IHC,ICC/IF,ELISA              |
| 种属反应性 (Reactivity)     | Human,Mouse                      |

## 产品性能 (Performance)

|                     |                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------|
| 偶联物 (Conjugation)   | Unconjugated                                                                                      |
| 修饰 (Modification)   | Unmodified                                                                                        |
| 同种型 (Isotype)       | IgG                                                                                               |
| 克隆 (Clonality)      | Polyclonal                                                                                        |
| 形式 (Form)           | Liquid                                                                                            |
| 存放说明 (Storage)      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.          |
| 储存溶液 (Buffer)       | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| 纯化方式 (Purification) | Affinity purification                                                                             |

## 免疫原信息 (Immunogen)

|                        |                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------|
| 基因名 (Gene Name)        | CUL3                                                                                                     |
| 别名 (Alternative Names) | CUL3; KIAA0617; Cullin-3; CUL-3                                                                          |
| 基因 ID (Gene ID)        | 8452.0                                                                                                   |
| 蛋白 ID (SwissProt ID)   | Q13618.The antiserum was produced against synthesized peptide derived from human Cullin 3. AA range:1-50 |

## 产品应用 (Application)

|                          |                                                                        |
|--------------------------|------------------------------------------------------------------------|
| 稀释比 (Dilution Ratio)     | WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:10000 |
| 蛋白分子量 (Molecular Weight) | 90kDa                                                                  |

## 研究背景 (Background)

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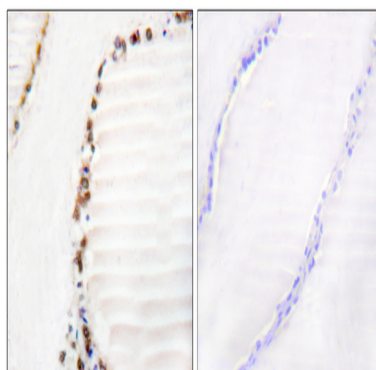
This gene encodes a member of the cullin protein family. The encoded protein plays a critical role in the polyubiquitination and subsequent degradation of specific protein substrates as the core component and scaffold protein of an E3 ubiquitin ligase complex. Complexes including the encoded protein may also play a role in late endosome maturation. Mutations in this gene are a cause of type 2E pseudohypoaldosteronism. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Mar 2012],function:Core component of multiple cullin-RING-based BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complexes which mediate the ubiquitination and subsequent proteasomal degradation of target proteins. As a scaffold protein may contribute to catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme. The E3 ubiquitin-protein ligase activity of the complex is dependent on the neddylation of the cullin subunit and is inhibited by the association of the deneddylated cullin subunit with TIP120A/CAND1 (By similarity). The functional specificity of the BCR complex depends on the BTB domain-containing protein as the substrate recognition component. BCR(SPOP) is involved in ubiquitination of BMI1/PCGF4, H2AFY and DAXX, and probably GLI2 or GLI3. BCR(KLHL9-KLHL13) controls the dynamic behavior of AURKB on mitotic chromosomes and thereby coordinates faithful mitotic progression and completion of cytokinesis. Involved in ubiquitination of cyclin E and of cyclin D1 (in vitro) thus involved in regulation of G1/S transition.,pathway:Protein modification; protein ubiquitination.,PTM:Neddylated. Attachment of NEDD8 is required for the E3 ubiquitin-protein ligase activity of the BCR complex. Deneddylated via its interaction with the COP9 signalosome (CSN) complex.,similarity:Belongs to the cullin family.,subunit:Forms neddylation-dependent homodimers. Component of multiple BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complexes formed of CUL3, RBX1 and a variable BTB domain-containing protein acting as both, adapter to cullin and substrate recognition subunit. The BCR complex may be active as a heterodimeric complex, in which NEDD8, covalently attached to one CUL3 molecule, binds to the C-terminus of a second CUL3 molecule. Interacts with RBX1, RNF7, CYCE and TIP120A/CAND1. Part of the BCR(SPOP) containing SPOP. Part of the probable BCR(KLHL9-KLHL13) complex with BTB domain proteins KLHL9 and KLHL13. Part of the BCR(KBTBD10) complex containing KBTBD10. Part of the BCR(ENC1) complex containing ENC1. Part of a complex consisting of BMI1/PCGF4, CUL3 and SPOP. Part of a complex consisting of H2AFY, CUL3 and SPOP. Interacts with KLHL9, KLHL13, GAN, ZBTB16, KLHL21, KLHL3, KLHL15, KLHL20, C16orf44, GMCL1L, BTBD1. Part of a complex that contains CUL3, RBX1 and GAN.,tissue specificity:Widely expressed.,

## 研究领域 (Research Area)

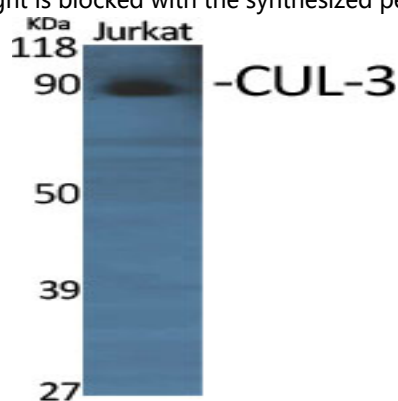
Ubiquitin mediated proteolysis;

## 图片 (Image Data)

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Immunohistochemistry analysis of paraffin-embedded human thyroid gland tissue, using Cullin 3 Antibody. The picture on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using CUL-3 Polyclonal Antibody diluted at 1: 1000

### 注意事项 (Note)

For research use only .