

**Cullin 2 Antibody**  
Rabbit mAb  
Catalog # AP91850

## Specification

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### Cullin 2 Antibody - Product Information

Application	WB, FC, ICC, IP
Primary Accession	<a href="#">Q13617</a>
Reactivity	Rat
Clonality	Monoclonal
<b>Other Names</b>	
Cul2; CUL 2; CUL2; cullin 2;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	86983 Da

### Cullin 2 Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Cullin 2
Description	Core component of multiple cullin-RING-based ECS (ElonginB/C-CUL2/5-SOCS-box protein) E3 ubiquitin-protein ligase complexes, which mediate the ubiquitination of target proteins. May serve as a rigid scaffold in the complex and may contribute to catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

### Cullin 2 Antibody - Protein Information

Name CUL2 ([HGNC:2552](#))

#### Function

Core component of multiple cullin-RING-based ECS (ElonginB/C- CUL2/5-SOCS-box protein) E3 ubiquitin-protein ligase complexes, which mediate the ubiquitination of target proteins (PubMed:<a href="http://www.uniprot.org/citations/11384984" target="\_blank">11384984</a>, PubMed:<a href="http://www.uniprot.org/citations/26138980" target="\_blank">26138980</a>, PubMed:<a href="http://www.uniprot.org/citations/29775578" target="\_blank">29775578</a>, PubMed:<a href="http://www.uniprot.org/citations/29779948" target="\_blank">29779948</a>).

CUL2 may serve as a rigid scaffold in the complex and may contribute to catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme (PubMed:<a href="http://www.uniprot.org/citations/10973499" target="\_blank">10973499</a>, PubMed:<a href="http://www.uniprot.org/citations/11384984" target="\_blank">11384984</a>, PubMed:<a href="http://www.uniprot.org/citations/12609982" target="\_blank">12609982</a>, PubMed:<a href="http://www.uniprot.org/citations/24076655" target="\_blank">24076655</a>, PubMed:<a href="http://www.uniprot.org/citations/9122164" target="\_blank">9122164</a>). 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 (PubMed:<a href="http://www.uniprot.org/citations/12609982" target="\_blank">12609982</a>, PubMed:<a href="http://www.uniprot.org/citations/24076655" target="\_blank">24076655</a>, PubMed:<a href="http://www.uniprot.org/citations/27565346" target="\_blank">27565346</a>). The functional specificity of the ECS complex depends on the substrate recognition component (PubMed:<a href="http://www.uniprot.org/citations/10973499" target="\_blank">10973499</a>, PubMed:<a href="http://www.uniprot.org/citations/26138980" target="\_blank">26138980</a>, PubMed:<a href="http://www.uniprot.org/citations/29775578" target="\_blank">29775578</a>, PubMed:<a href="http://www.uniprot.org/citations/29779948" target="\_blank">29779948</a>, PubMed:<a href="http://www.uniprot.org/citations/9122164" target="\_blank">9122164</a>). ECS(VHL) mediates the ubiquitination of hypoxia-inducible factor (HIF) (PubMed:<a href="http://www.uniprot.org/citations/10973499" target="\_blank">10973499</a>, PubMed:<a href="http://www.uniprot.org/citations/9122164" target="\_blank">9122164</a>). A number of ECS complexes (containing either KLHDC2, KLHDC3, KLHDC10, APPBP2, FEM1A, FEM1B or FEM1C as substrate-recognition component) are part of the DesCEND (destruction via C-end degrons) pathway, which recognizes a C-degron located at the extreme C terminus of target proteins, leading to their ubiquitination and degradation (PubMed:<a href="http://www.uniprot.org/citations/26138980" target="\_blank">26138980</a>, PubMed:<a href="http://www.uniprot.org/citations/29775578" target="\_blank">29775578</a>, PubMed:<a href="http://www.uniprot.org/citations/29779948" target="\_blank">29779948</a>). ECS complexes and ARIH1 collaborate in tandem to mediate ubiquitination of target proteins (PubMed:<a href="http://www.uniprot.org/citations/27565346" target="\_blank">27565346</a>). ECS(LRR1) ubiquitinates MCM7 and promotes CMG replisome disassembly by VCP and chromatin extraction during S- phase (By similarity).

#### Cellular Location

Nucleus {ECO:0000250|UniProtKB:Q9D4H8}.

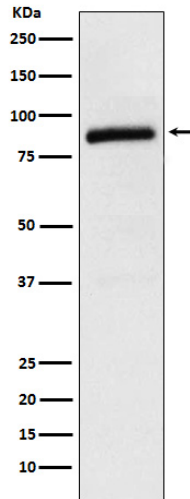
#### Cullin 2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Cullin 2 Antibody - Images





Western blot analysis of Cullin 2 expression in Raji cell lysate.