

**Cullin 2 Rabbit mAb**  
Catalog # AP77098**Specification**

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**Cullin 2 Rabbit mAb - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">Q13617</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Monoclonal Antibody</b>
Calculated MW	<b>86983</b>

**Cullin 2 Rabbit mAb - Additional Information****Gene ID** 8453**Other Names**  
CUL2**Dilution**  
WB~~1/500-1/1000**Format**  
Liquid**Cullin 2 Rabbit mAb - 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>, PubMed:<a href="http://www.uniprot.org/citations/38326650" target="\_blank">38326650</a>). CUL2 serves as a rigid scaffold in the complex and may contribute to catalysis through positioning of the substrate and the E2 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>, PubMed:<a href="http://www.uniprot.org/citations/38326650" target="\_blank">38326650</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/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>, PubMed:<a href="http://www.uniprot.org/citations/38326650" target="\_blank">38326650</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>, PubMed:<a href="http://www.uniprot.org/citations/38326650" target="\_blank">38326650</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>, PubMed:<a href="http://www.uniprot.org/citations/38326650" target="\_blank">38326650</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 Rabbit mAb - 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 Rabbit mAb - Images



