

**Cullin 5 Rabbit mAb**  
Catalog # AP75307**Specification**

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**Cullin 5 Rabbit mAb - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">Q93034</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Monoclonal Antibody</b>
Calculated MW	<b>90955</b>

**Cullin 5 Rabbit mAb - Additional Information****Gene ID** 8065**Other Names**  
CUL5**Dilution**  
WB~~1/500-1/1000**Format**  
Liquid**Cullin 5 Rabbit mAb - Protein Information****Name** CUL5 {ECO:0000303|PubMed:10230407, ECO:0000312|HGNC:HGNC:2556}**Function**

Core component of multiple cullin-5-RING E3 ubiquitin-protein ligase complexes (ECS complexes, also named CRL5 complexes), which mediate the ubiquitination and subsequent proteasomal degradation of target proteins (PubMed: [11384984](http://www.uniprot.org/citations/11384984), PubMed: [15601820](http://www.uniprot.org/citations/15601820), PubMed: [21199876](http://www.uniprot.org/citations/21199876), PubMed: [21980433](http://www.uniprot.org/citations/21980433), PubMed: [23897481](http://www.uniprot.org/citations/23897481), PubMed: [25505247](http://www.uniprot.org/citations/25505247), PubMed: [27910872](http://www.uniprot.org/citations/27910872), PubMed: [32200094](http://www.uniprot.org/citations/32200094), PubMed: [33268465](http://www.uniprot.org/citations/33268465), PubMed: [35512830](http://www.uniprot.org/citations/35512830), PubMed: [38418882](http://www.uniprot.org/citations/38418882)). Acts a scaffold protein that contributes to catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme (PubMed: [11384984](http://www.uniprot.org/citations/11384984), PubMed: [15601820](http://www.uniprot.org/citations/15601820), PubMed: [33268465](http://www.uniprot.org/citations/33268465)). The

functional specificity of the E3 ubiquitin-protein ligase complex depends on the variable SOCS box-containing substrate recognition component (PubMed:<a href="http://www.uniprot.org/citations/11384984" target="\_blank">11384984</a>, PubMed:<a href="http://www.uniprot.org/citations/15601820" target="\_blank">15601820</a>, PubMed:<a href="http://www.uniprot.org/citations/33268465" target="\_blank">33268465</a>). Acts as a key regulator of neuron positioning during cortex development: component of various SOCS-containing ECS complexes, such as the ECS(SOCS7) complex, that regulate reelin signaling by mediating ubiquitination and degradation of DAB1 (By similarity). ECS(SOCS1) seems to direct ubiquitination of JAK2 (PubMed:<a href="http://www.uniprot.org/citations/11384984" target="\_blank">11384984</a>). The ECS(SOCS2) complex mediates the ubiquitination and subsequent proteasomal degradation of phosphorylated EPOR and GHR (PubMed:<a href="http://www.uniprot.org/citations/21980433" target="\_blank">21980433</a>, PubMed:<a href="http://www.uniprot.org/citations/25505247" target="\_blank">25505247</a>). The ECS(SPSB3) complex catalyzes ubiquitination of nuclear CGAS (PubMed:<a href="http://www.uniprot.org/citations/38418882" target="\_blank">38418882</a>). ECS(KLHDC1) complex is part of the DesCEND (destruction via C-end degrons) pathway and mediates ubiquitination and degradation of truncated SELENOS selenoprotein produced by failed UGA/Sec decoding, which ends with a glycine (PubMed:<a href="http://www.uniprot.org/citations/32200094" target="\_blank">32200094</a>). The ECS(ASB9) complex mediates ubiquitination and degradation of CKB (PubMed:<a href="http://www.uniprot.org/citations/33268465" target="\_blank">33268465</a>). As part of some ECS complex, promotes 'Lys-11'-linked ubiquitination and degradation of BTRC (PubMed:<a href="http://www.uniprot.org/citations/27910872" target="\_blank">27910872</a>). As part of a multisubunit ECS complex, polyubiquitinates monoubiquitinated POLR2A (PubMed:<a href="http://www.uniprot.org/citations/19920177" target="\_blank">19920177</a>). As part of the ECS(RAB40C) complex, mediates ANKRD28 ubiquitination and degradation, thereby inhibiting protein phosphatase 6 (PP6) complex activity and focal adhesion assembly during cell migration (PubMed:<a href="http://www.uniprot.org/citations/35512830" target="\_blank">35512830</a>). As part of the ECS(RAB40A) complex, mediates RHOU 'Lys-48'-linked ubiquitination and degradation, thus inhibiting focal adhesion disassembly during cell migration (PubMed:<a href="http://www.uniprot.org/citations/26598620" target="\_blank">26598620</a>). As part of the ECS(RAB40B) complex, mediates LIMA1/EPLIN and RAP2 ubiquitination, thereby regulating actin cytoskeleton dynamics and stress fiber formation during cell migration (PubMed:<a href="http://www.uniprot.org/citations/33999101" target="\_blank">33999101</a>, PubMed:<a href="http://www.uniprot.org/citations/35293963" target="\_blank">35293963</a>). May form a cell surface vasopressin receptor (PubMed:<a href="http://www.uniprot.org/citations/9037604" target="\_blank">9037604</a>).

#### Cellular Location

Nucleus. Note=Localizes to sites of DNA damage in a UBAP2 and UBAP2L-dependent manner.

#### Cullin 5 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 5 Rabbit mAb - Images

