

Cullin 2 Antibody

Rabbit mAb

Catalog # AP91850

Product Information

Application	WB, IF, FC, ICC, IP
Primary Accession	Q13617
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	Cul2; CUL 2; CUL2; cullin 2;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	86983

Additional Information

Dilution	WB 1:500~1:2000 ICC/IF 1:50~1:200 IP 1:50 FC 1:50
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.

Protein Information

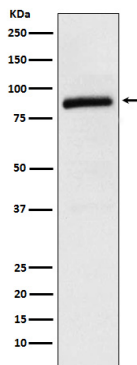
Name	CUL2 (HGNC:2552)
Function	Core component of multiple cullin-RING-based ECS (ElonginB/C-CUL2/5-SOCS-box protein) E3 ubiquitin-protein ligase complexes, which mediate the ubiquitination of target proteins (PubMed: 11384984 , PubMed: 26138980 , PubMed: 29775578 , PubMed: 29779948 , PubMed: 38326650). 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: 10973499 , PubMed: 11384984 , PubMed: 12609982 , PubMed: 24076655 , PubMed: 9122164 , PubMed: 38326650). 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: 12609982 , PubMed: 24076655 , PubMed: 27565346 , PubMed: 38326650). The functional specificity of the ECS complex depends on the substrate recognition component (PubMed: 10973499 , PubMed: 26138980 ,

PubMed:[29775578](#), PubMed:[29779948](#), PubMed:[9122164](#), PubMed:[38326650](#)). ECS(VHL) mediates the ubiquitination of hypoxia-inducible factor (HIF) (PubMed:[10973499](#), PubMed:[9122164](#)). 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:[26138980](#), PubMed:[29775578](#), PubMed:[29779948](#)). ECS complexes and ARIH1 collaborate in tandem to mediate ubiquitination of target proteins (PubMed:[27565346](#)). 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}.

Images



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

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