

CUL2 Antibody (C-Term)
Peptide-affinity purified goat antibody
Catalog # AF3216a

Specification

CUL2 Antibody (C-Term) - Product Information

Application	WB
Primary Accession	Q13617
Other Accession	NP_003582.2 , 8453 , 71745 (mouse) , 361258 (rat)
Reactivity	Mouse
Predicted	Human, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	86983

CUL2 Antibody (C-Term) - Additional Information

Gene ID 8453

Other Names
Cullin-2, CUL-2, CUL2

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CUL2 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

CUL2 Antibody (C-Term) - 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](http://www.uniprot.org/citations/11384984)),
(PubMed: [26138980](http://www.uniprot.org/citations/26138980)),
(PubMed: [29775578](http://www.uniprot.org/citations/29775578)),
(PubMed: [29779948](http://www.uniprot.org/citations/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

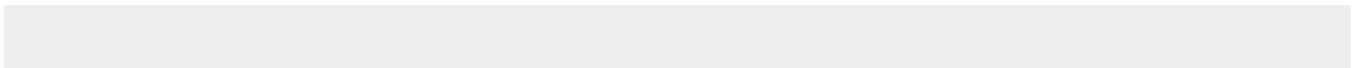
Nucleus {ECO:0000250|UniProtKB:Q9D4H8}.

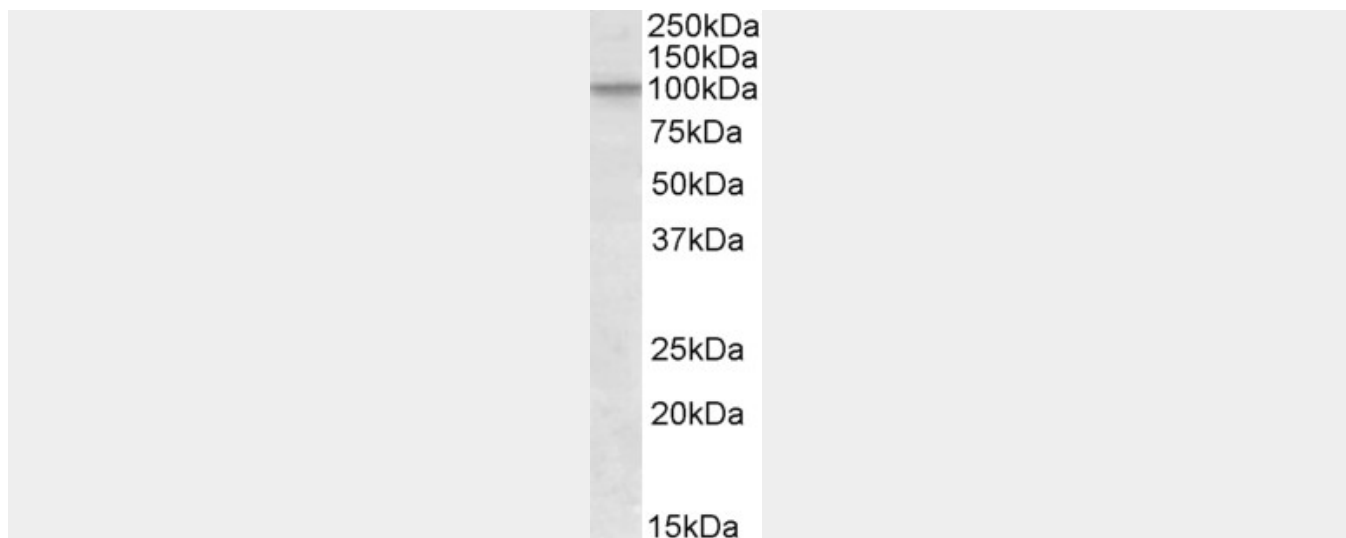
CUL2 Antibody (C-Term) - Protocols

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](#)

CUL2 Antibody (C-Term) - Images





AF3216a (1 $\mu\text{g/ml}$) staining of NIH3T3 lysate (35 μg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

CUL2 Antibody (C-Term) - References

KIF5B gene sequence variation and response of cardiac stroke volume to regular exercise.

Argyropoulos G, StÅ¼tz AM, Ilnytska O, Rice T, Teran-Garcia M, Rao DC, Bouchard C, Rankinen T, Physiological genomics 2009 Jan 36 (2): 79-88. PMID: 18984674