

Product Name: Cullin 2 (4Q8) Rabbit Monoclonal Antibody
Catalog #: AMRe09540

Summary

Production Name	Cullin 2 (4Q8) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
Purification	Affinity purification

Immunogen

Gene Name	CUL2
Alternative Names	Cul2; CUL 2; CUL2; cullin 2;
Gene ID	8453.0
SwissProt ID	Q13617.A synthetic peptide of human Cullin 2

Application

Dilution Ratio	WB: 1:1000-1:5000
Molecular Weight	87kDa

Background

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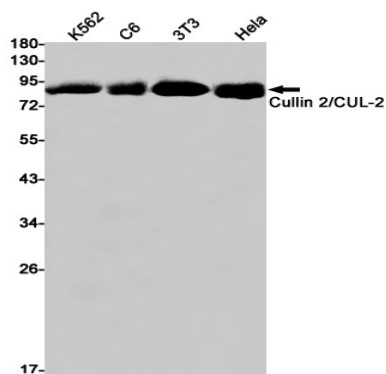
Core component of multiple cullin-RING-based ECS (ElonginB/C-CUL2/5-SOCS-box protein) E3 ubiquitin-protein ligase complexes, which mediate the ubiquitination of target proteins. May serve as a rigid scaffold in the complex and may contribute to catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme. 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: 29779948, PubMed: 29775578). 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: 9122164, PubMed: 10973499, PubMed: 11384984, PubMed: 12609982, PubMed: 24076655). 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). The functional specificity of the ECS complex depends on the substrate recognition component (PubMed: 9122164, PubMed: 10973499, PubMed: 26138980, PubMed: 29779948, PubMed: 29775578). ECS(VHL) mediates the ubiquitination of hypoxia-inducible factor (HIF) (PubMed: 9122164, PubMed: 10973499). 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: 29779948, PubMed: 29775578). ECS complexes and ARIH1 collaborate in tandem to mediate ubiquitination of target proteins (PubMed: 27565346).

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Research Area

Image Data



Western blot detection of Cullin 2/CUL-2 in K562,C6,3T3,HeLa cell lysates using Cullin 2/CUL-2 antibody(1:1000 diluted).

Note

For research use only.