



Rabbit Anti-Cullin 2 antibody

SL4209R

Product Name:	Cullin 2
Chinese Name:	Cullin2抗体
Alias:	Cullin2; Cullin-2; CUL 2; MGC131970; CUL2 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Horse,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	87kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Cullin 2:365-745/745
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Cullin 2 is a member of the family of human Cullin genes (CUL1, 2, 3, 4a, 4b and 5) homologous to the <i>S. cerevisiae</i> cdc53 gene. It is a component of E3 ubiquitin ligase complexes, including the inactive transcriptional elongation complex SIII, which mediates the ubiquitination of hypoxia-inducible factor (HIF). SIII is formed by three subunits: Elongin C, Elongin B and VHL. Cullin 2 may serve as a rigid scaffold in the complex and may contribute to catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme.

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. May serve as a rigid scaffold in the complex and may contribute to catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme. 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 (By similarity). The functional specificity of the ECS complex depends on the substrate recognition component. ECS(VHL) mediates the ubiquitination of hypoxia-inducible factor (HIF).

Subunit:

Component of multiple ECS (Elongin BC-CUL2/5-SOCS-box protein) E3 ubiquitin-protein ligase complexes formed of CUL2, Elongin BC (TCEB1 and TCEB2), RBX1 and a variable substrate-specific adapter. Component of the ECS(VHL) or CBC(VHL) complex containing VHL. Component of the ECS(MED8) complex with the probable substrate recognition component MED8 (By similarity). Component of the ECS(LRR1) complex with the probable substrate recognition component LRR1. Component of a probable ECS E3 ubiquitin-protein ligase complex containing CUL2, RBX1, TCEB1, TCEB2 and FEM1B. Part of an E3 ubiquitin-protein ligase complex including ZYG11B, CUL2 and Elongin BC. Part of an E3 ubiquitin-protein ligase complex including ZYG11BL, CUL2 and Elongin BC. Interacts with RBX1, RNF7, FEM1B and TIP120A/CAND1. Interacts with COPS2, and MED8 (By similarity). Interacts with human respiratory syncytial virus (HRSV) protein NS1. Found in a complex composed of LIMD1, VHL, EGLN1/PHD2, TCEB2 AND CUL2.

Post-translational modifications:

CBC(VHL) complex formation seems to promote neddylation. Deneddylated via its interaction with the COP9 signalosome (CSN) complex.

Similarity:

Belongs to the cullin family.

SWISS:

Q13617

Gene ID:

8453

Database links:

[Entrez Gene: 535219](#) Cow

[Entrez Gene: 477952](#) Dog

[Entrez Gene: 101152077](#) Gorilla
[Entrez Gene: 100054982](#) Horse
[Entrez Gene: 8453](#) Human
[Entrez Gene: 100395340](#) Marmoset (common)
[Entrez Gene: 101051445](#) Monkey
[Entrez Gene: 71745](#) Mouse
[Entrez Gene: 100018154](#) Opossum
[Entrez Gene: 100174361](#) Orangutan
[Entrez Gene: 100512186](#) Pig
[Entrez Gene: 100074001](#) Platypus (Ornithorhynchus anatinus)
[Entrez Gene: 100343513](#) Rabbit
[Entrez Gene: 361258](#) Rat
[Entrez Gene: 100550749](#) Turkey
[Entrez Gene: 336088](#) Zebrafish
[Omim: 603135](#) Human
[SwissProt: Q13617](#) Human
[SwissProt: Q9D4H8](#) Mouse
[SwissProt: Q5RCF3](#) Orangutan
[Unigene: 82919](#) Human
[Unigene: 291707](#) Mouse
[Unigene: 443148](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.