
Product Name: CUL-2 Rabbit Polyclonal Antibody**Catalog #: APRab09532**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:10000-1:20000
Molecular Weight	87kDa

Antigen Information

Gene Name	CUL2
Alternative Names	CUL2; Cullin-2; CUL-2
Gene ID	8453.0
SwissProt ID	Q13617
Immunogen	The antiserum was produced against synthesized peptide derived from human Cullin 2. AA range:696-745

Background

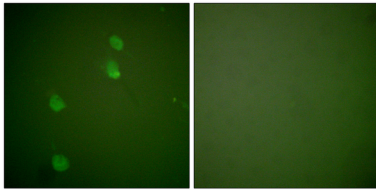
function:Core component of multiple cullin-RING-based ECS (ElonginB/C-CUL2/5-SOCS-box protein) E3 ubiquitin-protein

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).,pathway:Protein modification; protein ubiquitination.,PTM:CBC(VHL) complex formation seems to promote neddylation. Deneddylated via its interaction with the COP9 signalosome (CSN) complex.,similarity:Belongs to the cullin family.,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(PPIL5) complex with the probable substrate recognition component PPIL5. 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.,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).,pathway:Protein modification; protein ubiquitination.,PTM:CBC(VHL) complex formation seems to promote neddylation. Deneddylated via its interaction with the COP9 signalosome (CSN) complex.,similarity:Belongs to the cullin family.,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(PPIL5) complex with the probable substrate recognition component PPIL5. 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.,

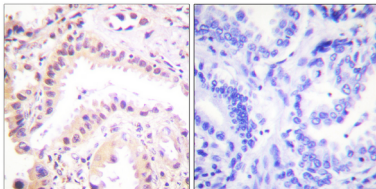
Research Area

Ubiquitin mediated proteolysis;Pathways in cancer;Renal cell carcinoma;

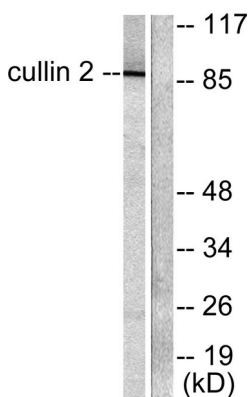
Image Data



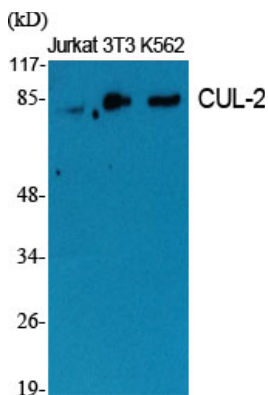
Immunofluorescence analysis of NIH/3T3 cells, using Cullin 2 Antibody. The picture on the right is blocked with the synthesized peptide.



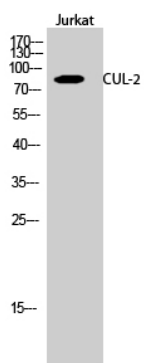
Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using Cullin 2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from LOVO cells, using Cullin 2 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using CUL-2 Polyclonal Antibody diluted at 1:2000



Western Blot analysis of Jurkat cells using CUL-2 Polyclonal Antibody diluted at 1:2000