

CUL-2 Polyclonal Antibody

Catalog No :	YT1158
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	CUL-2
Fields :	>>HIF-1 signaling pathway;>>Ubiquitin mediated proteolysis;>>Pathways in cancer;>>Renal cell carcinoma
Gene Name :	CUL2
Protein Name :	Cullin-2
Human Gene Id :	8453
Human Swiss Prot No :	Q13617
Mouse Gene Id :	71745
Mouse Swiss Prot No :	Q9D4H8
Immunogen :	The antiserum was produced against synthesized peptide derived from human Cullin 2. AA range:696-745
Specificity :	CUL-2 Polyclonal Antibody detects endogenous levels of CUL-2 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	87kD
Cell Pathway :	Ubiquitin mediated proteolysis;Pathways in cancer;Renal cell carcinoma;
Background :	<p>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 .,</p>
Function :	<p>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</p>

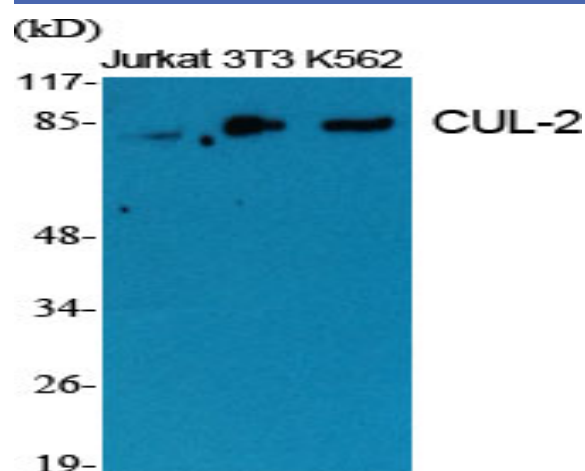
Subcellular Location : nucleoplasm,nucleolus,cytosol,VCB complex,cullin-RING ubiquitin ligase complex,Cul2-RING ubiquitin ligase complex,

Expression : Brain,Kidney,Skin,

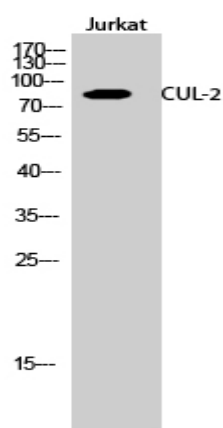
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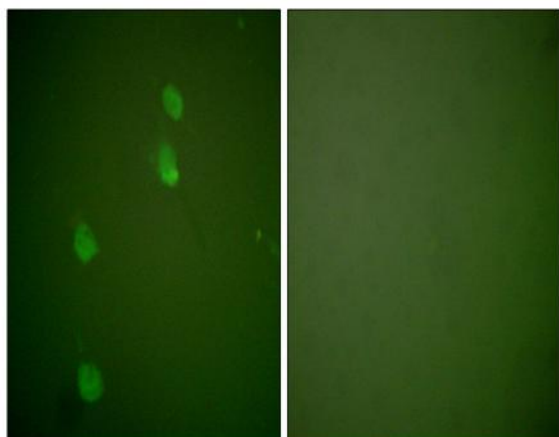
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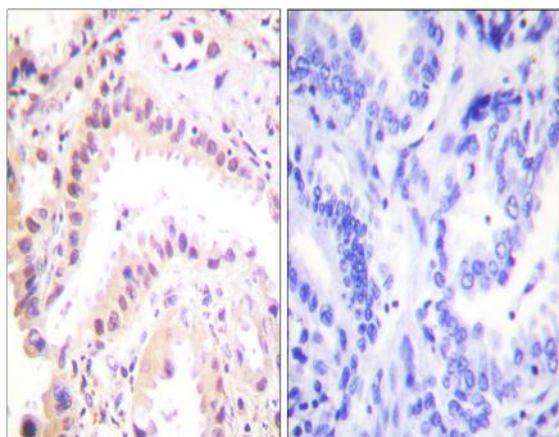
Western Blot analysis of various cells using CUL-2 Polyclonal Antibody diluted at 1:2000



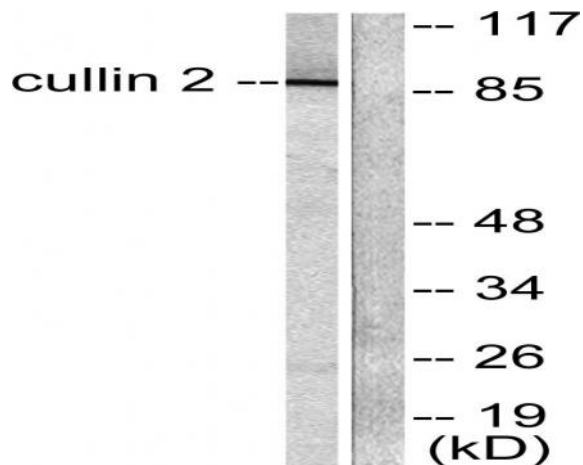
Western Blot analysis of Jurkat cells using CUL-2 Polyclonal Antibody diluted at 1:2000



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.