

For Research Use Only

# CUL2 Polyclonal antibody

Catalog Number:10981-2-AP

Featured Product

11 Publications



## Basic Information

### Catalog Number:

10981-2-AP

### Size:

150ul , Concentration: 500 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1434

### GenBank Accession Number:

BC009591

### GeneID (NCBI):

8453

### UNIPROT ID:

Q13617

### Full Name:

cullin 2

### Calculated MW:

87 kDa

### Observed MW:

87 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:6000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, ColP

### Species Specificity:

human

### Cited Species:

human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : HEK-293 cells, PC-3 cells, HeLa cells, HepG2 cells

IP : HeLa cells,

IHC : human prostate cancer tissue,

## Background Information

The cullin family proteins are scaffold proteins for the Ring finger type E3 ligases, participating in the proteolysis through the ubiquitin-proteasome pathway. Humans express seven cullin proteins: CUL1-3, CUL4A, CUL4B, CUL5, and CUL7. Each cullin protein can form an E3 ligase similar to the prototype Ring-type E3 ligase Skp1-CUL1-F-box complex. The Cullin-RING-finger type E3 ligases are important regulators in early embryonic development, as highlighted by genetic studies demonstrating that knock-out of CUL1, CUL3, or CUL4A in mice results in early embryonic lethality.

## Notable Publications

Author	Pubmed ID	Journal	Application
Wen Li	28977802	Cell Physiol Biochem	WB
Tomoaki Nagai	30404837	J Cell Sci	WB
Pingzhao Zhang	34743205	Cell Death Differ	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

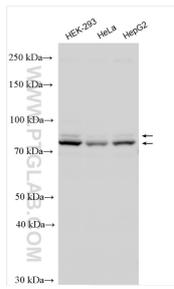
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

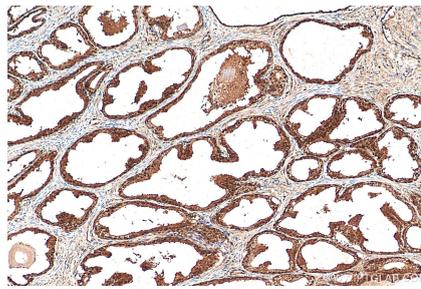
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

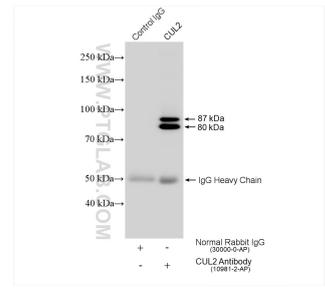
## Selected Validation Data



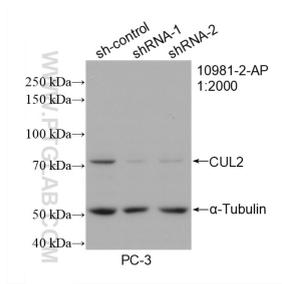
Various lysates were subjected to SDS PAGE followed by western blot with 10981-2-AP (CUL2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



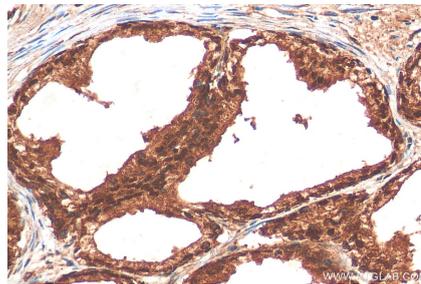
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 10981-2-AP (CUL2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-CUL2 (IP:10981-2-AP, 4ug; Detection:10981-2-AP 1:2000) with HeLa cells lysate 1360 ug.



WB result of CUL2 antibody (10981-2-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CUL2 transfected PC-3 cells.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 10981-2-AP (CUL2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).