

# CUL4B Polyclonal antibody

Catalog Number: 20882-1-AP

Featured Product

3 Publications

## Basic Information

**Catalog Number:**

20882-1-AP

**Size:**

500 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG15024

**GenBank Accession Number:**

BC036216

**GeneID (NCBI):**

8450

**UNIPROT ID:**

Q13620

**Full Name:**

cullin 4B

**Calculated MW:**

913 aa, 104 kDa

**Observed MW:**

102 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:3000

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

IHC 1:50-1:500

IF 1:50-1:500

## Applications

**Tested Applications:**

IF/ICC, IHC, IP, WB, ELISA

**Cited Applications:**

IF, IP

**Species Specificity:**

human, mouse, rat

**Cited Species:**

mouse

**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** : mouse thymus tissue, Jurkat cells, Y79 cells, SH-SY5Y cells, HeLa cells, rat thymus tissue

**IP** : mouse brain tissue,

**IHC** : human tonsillitis tissue, human gliomas tissue

**IF** : HeLa cells, HepG2 cells

## Background Information

Cullin-RING ligases (CRLs) complexes participate in the regulation of diverse cellular processes, including cell cycle progression, transcription, signal transduction and development (PMID: 21816341)(PMID: 21554755). Serving as the scaffold protein, cullins are crucial for the assembly of ligase complexes, which recognize and target various substrates for proteasomal degradation. Two cullin 4 (CUL4) proteins, CUL4A (87 kDa) and CUL4B(104 kDa), are two members in cullin family with 83% of identity. Mutations in human CUL4B are one of the major causes of X-linked mental retardation. Cul4b knockout mice demonstrated that CUL4B is indispensable for embryonic development in the mouse (PMID: 22606329). Proteintech's CUL4B antibody 20882-1-AP can specifically recognize CUL4B.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yan Yin	34685710	Cells	IF
Gonca Bayraktar	32726795	Neuropsychopharmacology	IP
Nianyin Lv	35069527	Front Immunol	IP

## 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

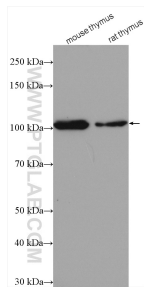
For technical support and original validation data for this product please contact:

T: 4006900926

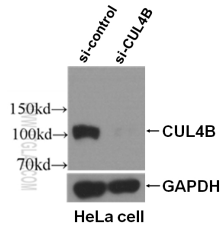
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

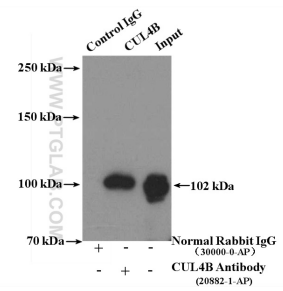
## Selected Validation Data



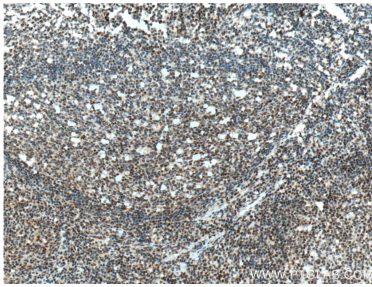
Various lysates were subjected to SDS PAGE followed by western blot with 20882-1-AP (CUL4B antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



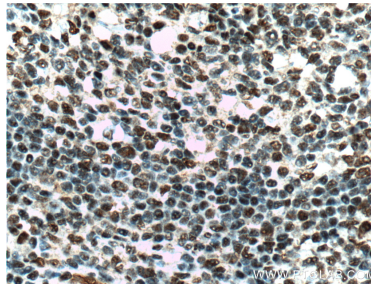
WB result of CUL4B antibody (20882-1-AP, 1:500) with si-Control and si-CUL4B transfected HeLa cells.



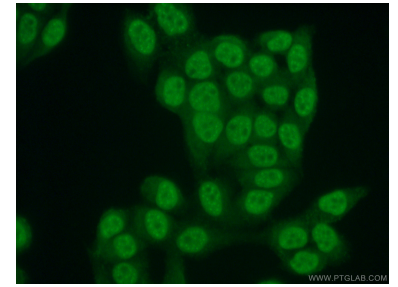
IP result of anti-CUL4B (IP:20882-1-AP, 4ug; Detection:20882-1-AP 1:300) with mouse brain tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 20882-1-AP (CUL4B Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 20882-1-AP (CUL4B Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 20882-1-AP (CUL4B antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).