

For Research Use Only

CUL4B Polyclonal antibody

Catalog Number: 20882-1-AP

Featured Product

3 Publications



Basic Information

Catalog Number:

20882-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 327 ug/ml by Bradford method using BSA as the standard;

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 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:500-1:2000

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, 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/ICC: HepG2 cells, HeLa 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

*** 20ul sizes contain 0.1% BSA

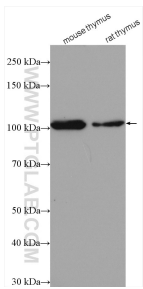
For technical support and original validation data for this product please contact:

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

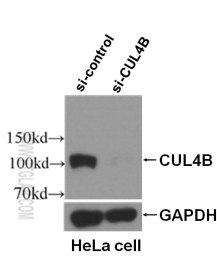
E: proteintech@ptglab.com
W: ptglab.com

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

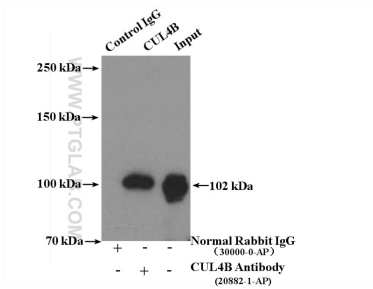
Selected Validation Data



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



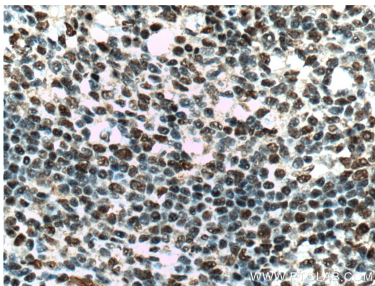
WB result of CUL4B antibody (20882-1-AP, 1:500) with si-Control and si-CUL4B transfected HeLa cells.



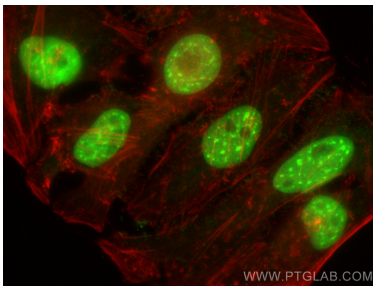
IP result of anti-CUL4B (IP:20882-1-AP, 4ug; Detection:20882-1-AP 1:300) with mouse brain tissue lysate 4000ug.



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 CUL4B antibody (20882-1-AP) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CUL4B antibody (20882-1-AP) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).