For Research Use Only

CUL4B
Polyclonal ANTIBODY

Catalog Number: 12916-1-AP

Basic Information

Catalog Number: 12916-1-AP
Size: 46 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number: AG3563

GenBank Accession Number: BC038276
GeneID (NCBI): 8450

Recommended Dilutions:
WB: 1:1000-1:2000
IP: 0.1-4.0 μg for IP and 1:100-1:2000 for WB
IHC: 1:100-1:500
IF: 1:10-1:100

Recommended Dilutions:
WB: 1:500-1:2000
IP: 0.5-4.0 μg for IP and 1:100-1:2000 for WB
IHC: 1:100-1:500
IF: 1:10-1:100

Applications

Tested Applications:
IF, IHC, IP, WB, ELISA
Cited Applications:
IF, IHC, WB
Species Specificity:
human, mouse
cited Species:
dog, human, mouse, rat

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

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).

Notable Publications

Author:
Liu Helio C HC
Yi-Jheng Peng
Tomoaki Nagai

Pubmed ID:
22992378
27580824
30492437

Journal:
BMC Neurosci
Sci Rep
J Cell Sci

Application:
WB, IF
WB
WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffers:
PBS with 0.1% 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:
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.
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 12916-1-AP (CUL4B antibody) at dilution of 1:100 (under 10x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).

Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 12916-1-AP (CUL4B antibody) at dilution of 1:100 (under 40x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).

WB result of CUL4B antibody (12916-1-AP, 1:2,000) with si-Control and si-CUL4B transfected HeLa cells.


Immunofluorescent analysis of HepG2 cells, using CUL4B antibody 12916-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).

HEK-293 cells were subjected to SDS PAGE followed by western blot with 12916-1-AP (CUL4B Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.