

CUL4B Polyclonal Antibody

Catalog number: 12916-1-AP

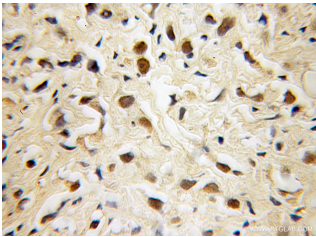
Size: 46 µg/150 µl

Source: Rabbit

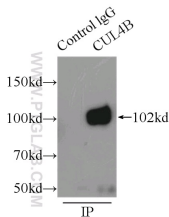
Isotype: IgG

Synonyms:

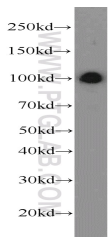
CUL4B; CUL 4B, CUL4B, cullin 4B, DKFZp686F1470, KIAA0695, MRXHF2, MRXSC, SFM2



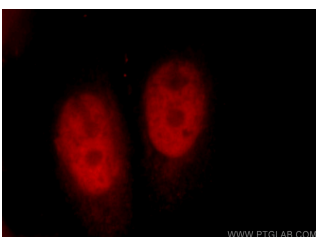
Immunohistochemical of paraffin-embedded human gliomas using 12916-1-AP (CUL4B antibody) at dilution of 1:100 (under 10x lens)



IP Result of anti-CUL4B (IP:12916-1-AP, 3µg; Detection:12916-1-AP 1:1000) with HeLa cells lysate 4650µg.



HEK-293 cells were subjected to SDS PAGE followed by western blot with 12916-1-AP (CUL4B antibody) at dilution of 1:1000



Immunofluorescent analysis

Background

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 proteosomal 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).

Applications

Tested applications:	ELISA, IHC, IF, IP, WB
Cited applications:	IF, IHC, IP, WB
Species specificity:	Human, Mouse; other species not tested.
Cited species:	Human, mouse, rat
Calculated CUL4B MW:	913aa, 104 kDa
Observed CUL4B MW:	102 kDa
Positive WB detected in	HEK-293 cells, HeLa cells, human testis tissue, mouse testis tissue, SH-SY5Y cells
Positive IP detected in	HeLa cells
Positive IHC detected in	Human gliomas tissue, human testis tissue
Positive IF detected in	HepG2 cells
Recommended dilution:	WB: 1:500-1:5000 IP: 1:500-1:5000 IHC: 1:20-1:200 IF: 1:10-1:100

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag3563
GenBank accession number:	BC036216
Gene ID (NCBI):	8450
Full name:	Cullin 4B

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.

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