

For Research Use Only

CUL4B Monoclonal antibody

Catalog Number: 60151-1-Ig

Featured Product

5 Publications



Basic Information

Catalog Number: 60151-1-Ig	GenBank Accession Number: BC036216	Purification Method: Caprylic acid/ammonium sulfate precipitation
Size: 150ul, Concentration: 2100 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 8450	CloneNo.: 4E10B10
Source: Mouse	Full Name: cullin 4B	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500
Isotype: IgG1	Calculated MW: 913 aa, 104 kDa	
Immunogen Catalog Number: AG3563	Observed MW: 102 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB: HeLa cells, HEK-293 cells, ROS1728 cells
Cited Applications: IHC, WB	IHC: human gliomas tissue,
Species Specificity: human, rat	
Cited Species: human, mouse	
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 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).

Notable Publications

Author	Pubmed ID	Journal	Application
Ziling Fang	30483755	Int J Oncol	
Min Zhong	34153655	Pathol Res Pract	IHC, WB
Alice Meroni	36490343	Sci Adv	WB

Storage

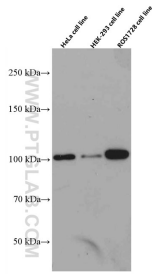
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

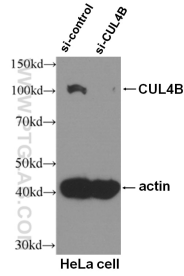
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

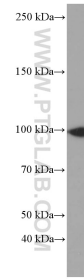
Selected Validation Data



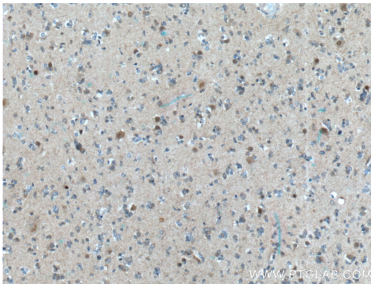
various lysates were subjected to SDS PAGE followed by western blot with 60151-1-Ig (CUL4B antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



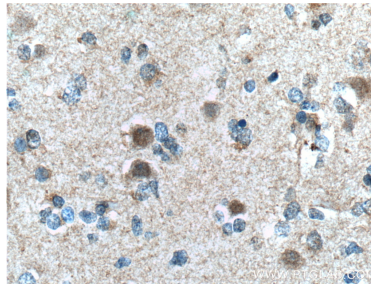
WB result of CUL4B antibody (60151-1-Ig, 1:500) with si-Control and si-CUL4B transfected HeLa cells.



HeLa cells were subjected to SDS PAGE followed by western blot with 60151-1-Ig (CUL4B Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 60151-1-Ig (CUL4B Antibody) at dilution of 1:100 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 60151-1-Ig (CUL4B Antibody) at dilution of 1:100 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).