

For Research Use Only

CUL1 Monoclonal antibody

Catalog Number: 66978-1-Ig



Basic Information

Catalog Number: 66978-1-Ig	GenBank Accession Number: BC034318	Purification Method: Protein A purification
Size: 2700 µg/ml	GeneID (NCBI): 8454	CloneNo.: 1B6D10
Source: Mouse	UNIPROT ID: Q13616	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:500-1:2000 IF 1:200-1:800
Isotype: IgG2b	Full Name: cullin 1	
Immunogen Catalog Number: AG28399	Calculated MW: 90 kDa	
	Observed MW: 85 kDa	

Applications

Tested Applications:
FC, IF/ICC, IHC, WB, ELISA

Species Specificity:
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

Positive Controls:

WB: HEK-293 cells, NCI-H1299 cells, Jurkat cells, PC-12 cells, NIH/3T3 cells, 4T1 cells

IHC: human lung cancer tissue, human prostate cancer tissue

IF: HEK-293 cells,

Background Information

The cullin family proteins are scaffold proteins for the Ring finger type E3 ligases. Humans express seven cullin proteins: CUL1-3, CUL4A, CUL4B, CUL5, and CUL7. Each cullin protein can form an E3 ligase similar to the prototype Ring-type E3 ligase Skp1-CUL1-F-box complex. The Cullin-RING-finger type E3 ligases are important regulators in early embryonic development, as highlighted by genetic studies demonstrating that knock-out of CUL1, CUL3, or CUL4A in mice results in early embryonic lethality.

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:

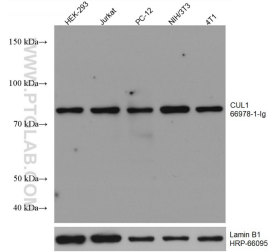
T: 4006900926

E: Proteintech-CN@ptglab.com

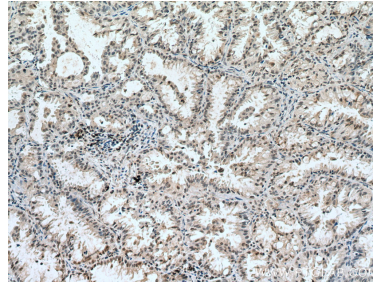
W: ptgcn.com

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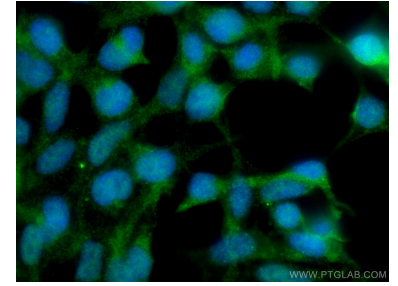
Selected Validation Data



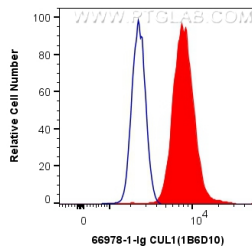
Various lysates were subjected to SDS PAGE followed by western blot with 66978-1-Ig (CUL1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Lamin B1 Monoclonal antibody (HRP-66095) as loading control.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66978-1-Ig (CUL1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using CUL1 antibody (66978-1-Ig, Clone: 1B6D10) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1X10⁶ HEK-293 cells were intracellularly stained with 0.4 ug Anti-Human CUL1 (66978-1-Ig, Clone:1B6D10) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2b Isotype Control (66360-3-Ig, Clone: K11B8C4B5) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).