

# CUL4A Monoclonal antibody

Catalog Number: 66038-1-Ig

Featured Product

3 Publications

## Basic Information

**Catalog Number:**

66038-1-Ig

**Size:**

760 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG18089

**GenBank Accession Number:**

BC008308

**GeneID (NCBI):**

8451

**UNIPROT ID:**

Q13619

**Full Name:**

cullin 4A

**Calculated MW:**

77 kDa

**Observed MW:**

77 kDa, 88 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

1A7F12

**Recommended Dilutions:**

WB 1:5000-1:50000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF 1:20-1:200

## Applications

**Tested Applications:**

IF/ICC, IHC, IP, WB, ELISA

**Cited Applications:**

WB, IP, IF

**Species Specificity:**

human, monkey, mouse, rat, pig

**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**

**Positive Controls:**

**WB:** LNCaP cells, HeLa cells, pig brain tissue, MCF-7 cells, HepG2 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells

**IP:** MCF-7 cells,

**IHC:** human heart tissue, human breast cancer tissue

**IF:** HepG2 cells,

## Background Information

Cullin proteins assemble a large number of RING E3 ubiquitin ligases, participating in the proteolysis through the ubiquitin-proteasome pathway. Two cullin 4 (CUL4) proteins, CUL4A (87 kDa) and CUL4B (104 kDa), have been identified. The two CUL4 sequences are 83% identical. They target certain proteins for degradation by binding protein DDB1 to form a CUL4-DDB1 ubiquitin ligase complex with DDB. They form two individual E3 ligases, DDB1-CUL4A and DDB1-CUL4B in this process. CUL4A appeared in both the nucleus and the cytosol, suggesting a more complex mechanism for entering the nucleus. CUL4B is localized in the nucleus and facilitates the transfer of DDB1 into the nucleus independently of DDB2.

## Notable Publications

Author	Pubmed ID	Journal	Application
Wan Wang	35799276	Stem Cell Res Ther	WB,IF,IP
Masashi Minamino	30100344	Curr Biol	
Li Kang	37349645	Oncogene	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

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

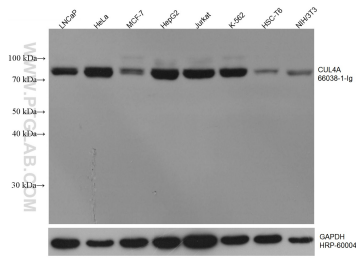
T: 4006900926

E: Proteintech-CN@ptglab.com

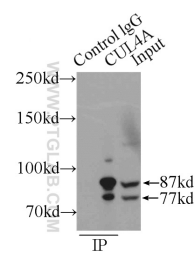
W: ptgcn.com

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

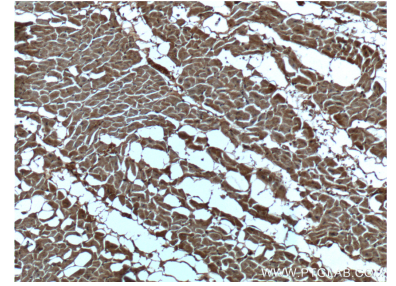
## Selected Validation Data



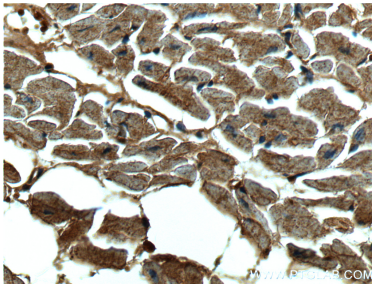
Various lysates were subjected to SDS PAGE followed by western blot with 66038-1-Ig (CUL4A antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



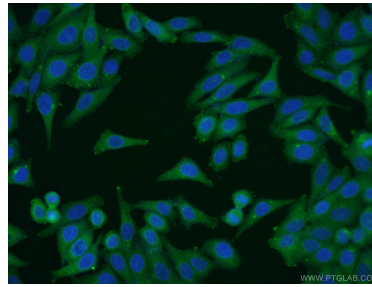
IP result of anti-CUL4A (IP:66038-1-Ig, 4ug; Detection:66038-1-Ig 1:500) with MCF-7 cells lysate 2800ug.



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 66038-1-Ig (CUL4A Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 66038-1-Ig (CUL4A Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of HepG2 cells using 66038-1-Ig (CUL4A antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG (H+L).