

For Research Use Only

# CUL4A Monoclonal antibody

Catalog Number: 66038-1-Ig

Featured Product

5 Publications



## Basic Information

**Catalog Number:**

66038-1-Ig

**GenBank Accession Number:**

BC008308

**Purification Method:**

Protein A purification

**Size:**

150ul, Concentration: 1300 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

**GeneID (NCBI):**

8451

**CloneNo.:**

1A7F12

**Source:**

Mouse

**UNIPROT ID:**

Q13619

**Recommended Dilutions:**

WB 1:5000-1:50000

**Isotype:**

IgG1

**Full Name:**

cullin 4A

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

IHC 1:20-1:200

IF/ICC 1:20-1:200

**Immunogen Catalog Number:**

AG18089

**Observed MW:**

77 kDa, 88 kDa

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, IP, ELISA

**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

**Cited Applications:**

WB, IF, IP

**IP** : MCF-7 cells,

**Species Specificity:**

human, monkey, mouse, rat, pig

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

**Cited Species:**

human, mouse

**IF/ICC** : HepG2 cells,

**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 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/DDB2 and DDB1-CUL4B/DDB2 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	
Ruiqi Yu	39138375	Cell Death Differ	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

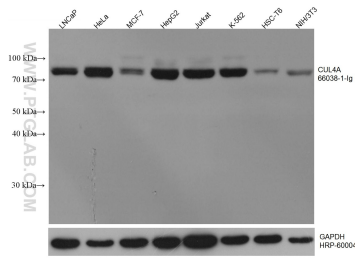
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

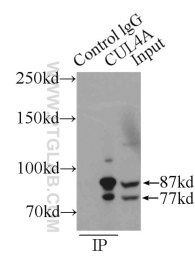
E: proteintech@ptglab.com  
W: ptglab.com

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

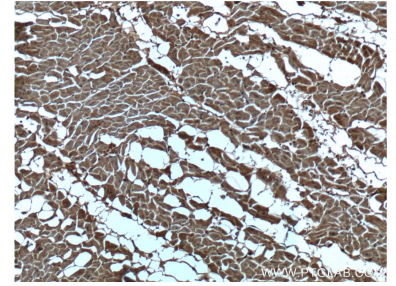
## Selected Validation Data



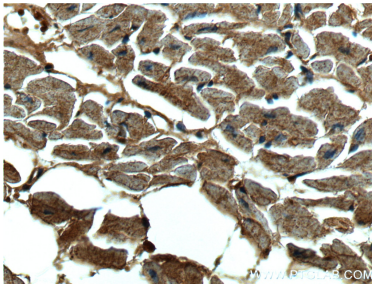
Various lysates were subjected to SDS PAGE followed by western blot with 66038-1-Ig (CUL4A antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



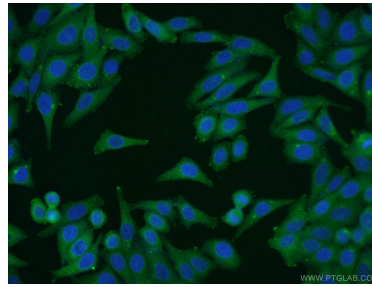
IP result of anti-CUL4A (IP:66038-1-Ig, 4ug; Detection:66038-1-Ig 1:500) with MCF-7 cells lysate 2800ug.



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 Goat Anti-Mouse IgG (H+L).