

For Research Use Only

# CUL2 Monoclonal antibody

Catalog Number: 67175-1-Ig

Featured Product

1 Publications



## Basic Information

<b>Catalog Number:</b> 67175-1-Ig	<b>GenBank Accession Number:</b> BC009591	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 2300 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 8453	<b>CloneNo.:</b> 1A6G9
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q13617	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:250-1:1000 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG1	<b>Full Name:</b> cullin 2	
<b>Immunogen Catalog Number:</b> AG28654	<b>Calculated MW:</b> 87 kDa	
	<b>Observed MW:</b> 85-90 kDa	

## Applications

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

**Cited Applications:**  
WB, IF, IP

**Species Specificity:**  
human, rat

**Cited Species:**  
human

**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 :** A431 cells, HEK-293 cells, HeLa cells, HSC-T6 cells, MCF-7 cells, PC-3 cells, Raji cells, SW 1990 cells, TF-1 cells, K-562 cells

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

**IF/ICC :** HeLa cells,

## Background Information

The cullin family proteins are scaffold proteins for the Ring finger type E3 ligases, participating in the proteolysis through the ubiquitin-proteasome pathway. 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Tiantian Wang	38978293	FEBS J	WB,IP,IF

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

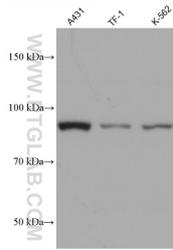
For technical support and original validation data for this product please contact:

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.

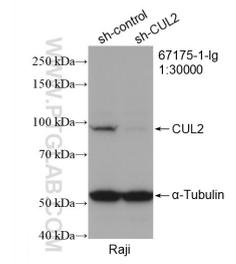
## Selected Validation Data



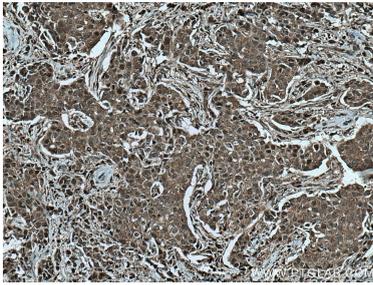
Various lysates were subjected to SDS PAGE followed by western blot with 67175-1-Ig (CUL2 antibody) at dilution of 1:18000 incubated at room temperature for 1.5 hours.



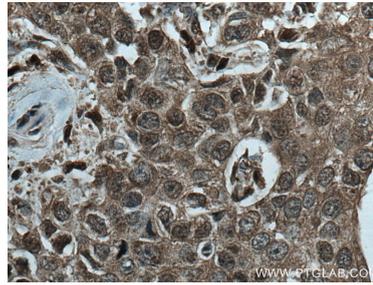
MCF-7 cells were subjected to SDS PAGE followed by western blot with 67175-1-Ig (CUL2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



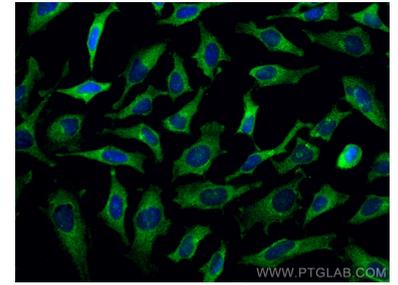
WB result of CUL2 antibody (67175-1-Ig; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CUL2 transfected Raji cells.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67175-1-Ig (CUL2 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67175-1-Ig (CUL2 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using CUL2 antibody (67175-1-Ig, Clone: 1A6G9) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).