

For Research Use Only

# CUL7 Polyclonal antibody

Catalog Number: 13738-1-AP

Featured Product

3 Publications



## Basic Information

Catalog Number:

13738-1-AP

Size:

500 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4675

GenBank Accession Number:

BC033647

GeneID (NCBI):

9820

UNIPROT ID:

Q14999

Full Name:

cullin 7

Calculated MW:

1698 aa, 191 kDa

Observed MW:

185 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

## Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB

Species Specificity:

human

Cited Species:

human, rat

Positive Controls:

WB : HEK-293 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. CUL7 was originally discovered as 185-kDa protein associated with the large T antigen of simian virus 40 (SV40). CUL7-deficient mice exhibit neonatal lethality with reduced size and vascular defects. CUL7 presumably plays a role in the DNA damage response by limiting p53 activity. CUL7 mutations have also been identified in 3-Msyndrome and the Yakuts short stature syndrome, both of which are characterized by pre- and post-natal growth retardation but with relatively normal mental and endocrine functions, suggesting that CUL7 may also be crucial for human placental development.

## Notable Publications

Author	Pubmed ID	Journal	Application
Tomoaki Nagai	30404837	J Cell Sci	WB
Gustavo R Ares	36727946	Am J Physiol Renal Physiol	WB
Zhang Wencheng W	23396401	Diabetes	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:

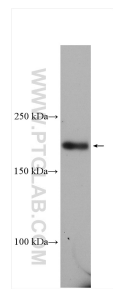
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

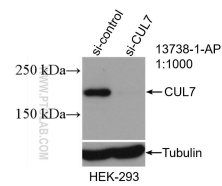
W: [ptgcn.com](http://ptgcn.com)

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

# Selected Validation Data



HEK-293 cells were subjected to SDS PAGE followed by western blot with 13738-1-AP (CUL7 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



WB result of CUL7 antibody (13738-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CUL7 transfected HEK-293 cells.