

For Research Use Only

# ZCCHC11 Polyclonal antibody

Catalog Number: 18980-1-AP

Featured Product

24 Publications



## Basic Information

### Catalog Number:

18980-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 200 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_015269

### GeneID (NCBI):

23318

### UNIPROT ID:

Q5TAX3

### Full Name:

zinc finger, CCHC domain containing 11

### Calculated MW:

185 kDa

### Observed MW:

185 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

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

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IF/ICC, IP, ELISA

### Cited Applications:

WB, IP, CoIP, IF

### Species Specificity:

human, mouse

### Cited Species:

human, mouse

### Positive Controls:

WB: MCF7 cells, HEK-293T cells, HeLa cells, human brain tissue

IP: MCF-7 cells,

IF/ICC: HepG2 cells,

## Background Information

ZCCHC11, also named as KIAA0191 and TUT4, is an uridylyltransferase that acts as a suppressor of microRNA (miRNA) biogenesis by specifically mediating the terminal uridylation of some miRNAs. ZCCHC11 catalyzes the 3' uridylation of precursor let-7 (pre-let-7), a miRNA precursor. Uridylated pre-let-7 miRNAs fail to be processed by Dicer and undergo degradation. Degradation of pre-let-7 contributes to the maintenance of embryonic stem (ES) cells and is required for ES cells to maintain pluripotency. ZCCHC11 can't bind RNA by itself, recruited to pre-let-7 miRNAs via its interaction with LIN28 and LIN28B. Also catalyzes the 3' uridylation of miR-26A, a miRNA that represses IL6 transcript, leading to abrogate IL6 transcript repression and promote cytokine expression. ZCCHC11 may also suppress Toll-like receptor-induced NF-kappa-B activity via binding to T2BP. This antibody is specific to the 185 kd ZCCHC11 protein.

## Notable Publications

Author	Pubmed ID	Journal	Application
James E Thornton	25223788	Nucleic Acids Res	WB
Acong Yang	36071058	Nat Commun	WB, IP
Nila Roy Choudhury	25457611	Cell Rep	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

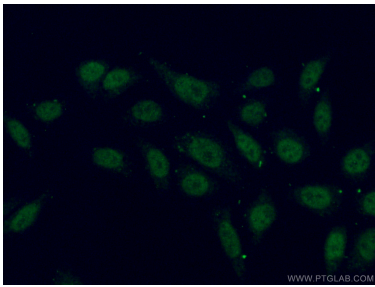
For technical support and original validation data for this product please contact:

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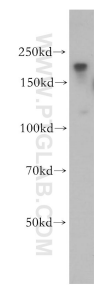
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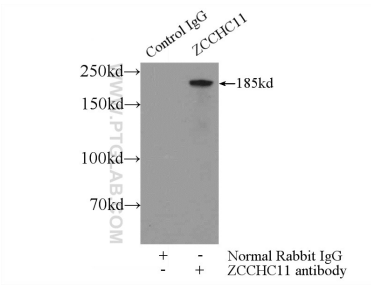
Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 18980-1-AP (ZCCHC11 antibody) at dilution of 1:100 and CoraLite488-Conjugated Goat Anti-Rabbit IgG(H+L).



MCF7 cells were subjected to SDS PAGE followed by western blot with 18980-1-AP (ZCCHC11 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP result of anti-ZCCHC11 (IP:18980-1-AP, 5ug; Detection:18980-1-AP 1:1000) with MCF-7 cells lysate 2000ug.