

For Research Use Only

# CC2D1A Polyclonal antibody

Catalog Number: 16816-1-AP

Featured Product

5 Publications



## Basic Information

### Catalog Number:

16816-1-AP

### Size:

150ul, Concentration: 1000 ug/ml by Nanodrop and 400 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG10355

### GenBank Accession Number:

BC064981

### GeneID (NCBI):

54862

### UNIPROT ID:

Q6P1N0

### Full Name:

coiled-coil and C2 domain containing 1A

### Calculated MW:

951 aa, 104 kDa

### Observed MW:

130 kDa, 104 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

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

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

mouse, rat

### Positive Controls:

WB : HEK-293 cells, HeLa cells, Jurkat cells, mouse liver tissue

IP : mouse liver tissue,

IHC : human testis tissue, human brain tissue, human liver tissue, human skin tissue

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

CC2D1A (coiled-coil and C2 domain-containing 1A), also known as Freud-1, Aki1 or TAPE (TBK1-associated protein in endolysosomes), is a evolutionary conserved protein located in different subcellular compartments, including the nucleus, centrosome, and endolysosomes. It acts as a scaffold protein that interacts with various proteins and plays diverse biological roles. Mutations in CC2D1A have been linked to nonsyndromic mental retardation (NMSR) and generate a truncated 85-kDa product. Several isoforms of CC2D1A proteins have also been described: 120 / 130-kDa doublet of long isoform and 67 kDa short isoform. The short isoform of CC2D1A has been identified as the predominant isoform in rodent cells, while the long isoform is more abundant in human cells. Recently it has been reported that CC2D1A/TAPE is the first innate immune regulator implicated in both TLR and RLR signaling at a very early step.

## Notable Publications

Author	Pubmed ID	Journal	Application
Chen Kuan-Ru KR	22833682	J Biol Chem	WB
Song Zhang	28582325	Anesthesiology	WB
Cheng-Yi Yang	34132974	Neurotherapeutics	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

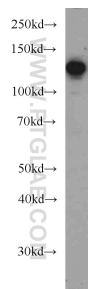
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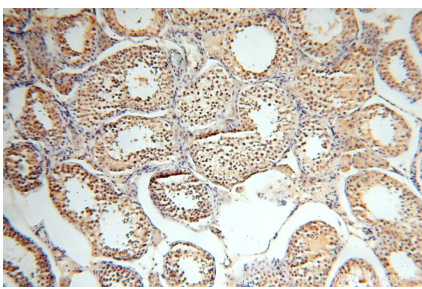
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

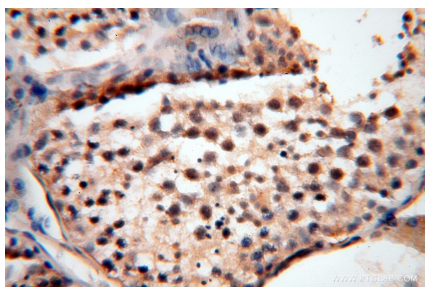
Selected Validation Data



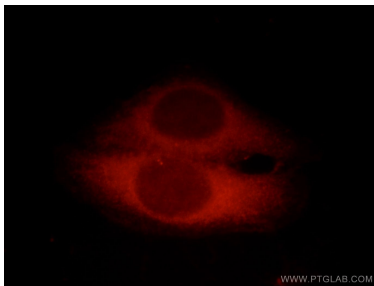
HEK-293 cells were subjected to SDS PAGE followed by western blot with 16816-1-AP (CC2D1A antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



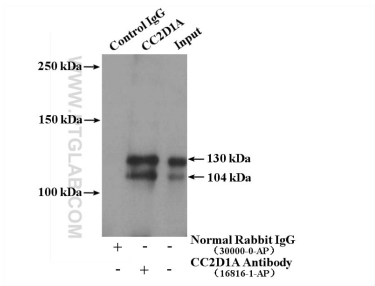
Immunohistochemical analysis of paraffin-embedded human testis using 16816-1-AP (CC2D1A antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human testis using 16816-1-AP (CC2D1A antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of HepG2 cells, using CC2D1A antibody 16816-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



IP result of anti-CC2D1A (IP:16816-1-AP, 4ug; Detection:16816-1-AP 1:2000) with mouse liver tissue lysate 4000ug.