

For Research Use Only

# CNNM4 Polyclonal antibody

Catalog Number: 14066-1-AP

Featured Product

1 Publications



## Basic Information

### Catalog Number:

14066-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG5121

### GenBank Accession Number:

BC063295

### GeneID (NCBI):

26504

### UNIPROT ID:

Q6P4Q7

### Full Name:

cyclin M4

### Calculated MW:

87 kDa

### Observed MW:

90-100 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:1000-1:30000

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

IHC: 1:250-1:1000

IF/ICC: 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human, mouse, rat

### Cited Species:

mouse

### Positive Controls:

WB : HEK-293 cells, mouse colon tissue

IP : mouse testis tissue,

IHC : human colon tissue,

IF/ICC : MCF-7 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

Ancient conserved domain-containing protein 4/cyclin M4 (CNNM4), a membrane protein that stimulates Mg<sup>2+</sup> efflux, binds phosphatase of regenerating liver (PRL), which is frequently overexpressed in malignant human cancers (PMID: 25347473). CNNM4 is predominant in the brain, bone marrow, immune system, and especially abundant in the intestinal tract. CNNM4 localizes at the basolateral membrane of the intestinal epithelia and mediates transcellular Mg<sup>2+</sup> transport (PMID: 27006114).

## Notable Publications

Author	Pubmed ID	Journal	Application
Irene González-Recio	36433951	Nat Commun	WB,IHC

## 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

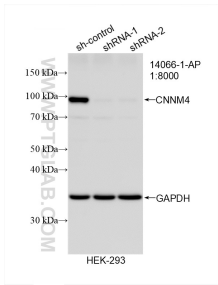
For technical support and original validation data for this product please contact:

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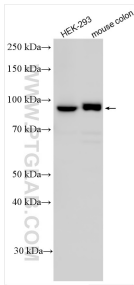
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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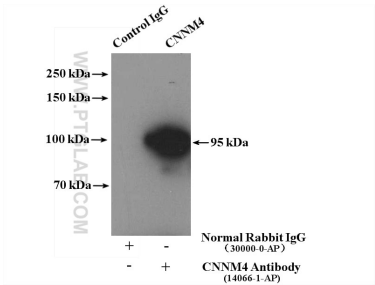
Selected Validation Data



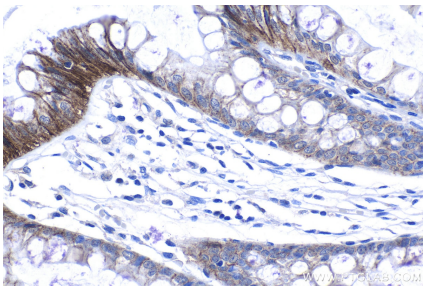
WB result of CNNM4 antibody (14066-1-AP; 1:8000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CNNM4 transfected HEK-293 cells.



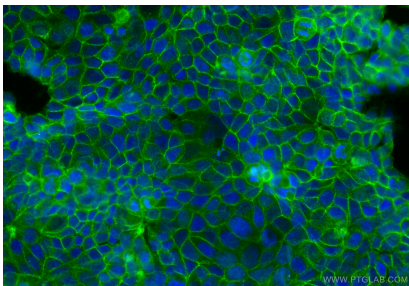
Various lysates were subjected to SDS PAGE followed by western blot with 14066-1-AP (CNNM4 antibody) at dilution of 1:25000 incubated at room temperature for 1.5 hours.



IP result of anti-CNNM4 (IP: 14066-1-AP, 4ug; Detection: 14066-1-AP 1:1000) with mouse testis tissue lysate 4400ug.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 14066-1-AP (CNNM4 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using CNNM4 antibody (14066-1-AP) at dilution of 1:400 and Multi-rAb Coralite @ Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).