

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: 393 ug/ml by Nanodrop and 393 ug/ml by Bradford method using BSA as the standard;

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 1:5000-1:50000

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

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 : HEK-293 cells, mouse colon tissue

IP : mouse testis tissue,

IHC : human colon tissue,

IF/ICC : MCF-7 cells,

Background Information

Ancient conserved domain-containing protein 4/cyclin M4 (CNNM4), a membrane protein that stimulates Mg²⁺ 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 Mg²⁺ 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

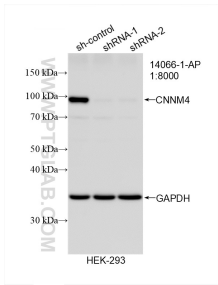
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

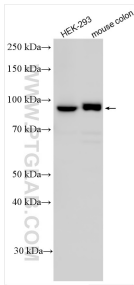
E: proteintech@ptglab.com
W: ptglab.com

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

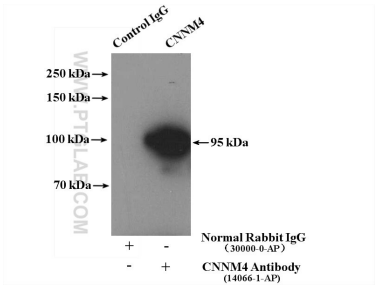
Selected Validation Data



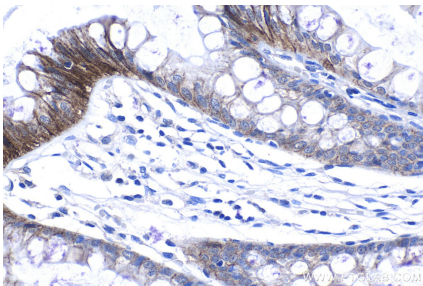
WB result of CNNM4 antibody (14066-1-AP; 1:8000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CNNM4 transfected HEK-293 cells.



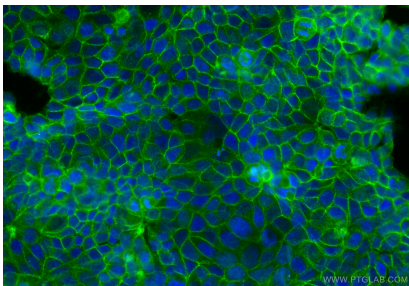
Various lysates were subjected to SDS PAGE followed by western blot with 14066-1-AP (CNNM4 antibody) at dilution of 1:25000 incubated at room temperature for 1.5 hours.



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).