

For Research Use Only

CNNM4 Polyclonal antibody

Catalog Number: 14066-1-AP **1 Publications**



Basic Information

Catalog Number: 14066-1-AP	GenBank Accession Number: BC063295	Purification Method: Antigen affinity purification
Size: 393 ug/ml	GeneID (NCBI): 26504	Recommended Dilutions: WB 1:5000-1:50000
Source: Rabbit	UNIPROT ID: Q6P4Q7	IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
Isotype: IgG	Full Name: cyclin M4	IHC 1:250-1:1000
Immunogen Catalog Number: AG5121	Calculated MW: 87 kDa	IF/ICC 1:200-1:800
	Observed MW: 90-100 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, IP, ELISA	Positive Controls: WB : HEK-293 cells, mouse colon tissue
Cited Applications: WB, IHC	IP : mouse testis tissue,
Species Specificity: human, mouse, rat	IHC : human colon tissue,
Cited Species: mouse	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 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

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

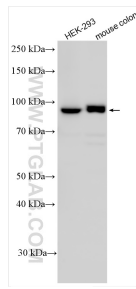
T: 4006900926

E: Proteintech-CN@ptglab.com

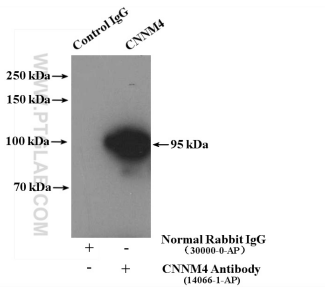
W: ptgcn.com

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

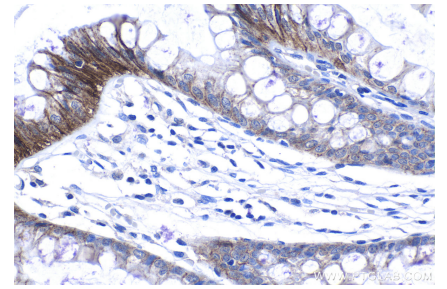
Selected Validation Data



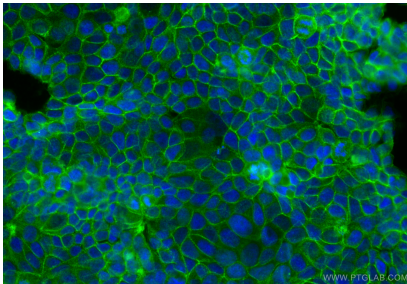
Various lysates were subjected to SDS PAGE followed by western blot with 14066-1-AP (CNNM4 antibody) at dilution of 1:25000 incubated at room temperature for 1.5 hours.



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).