

## CPLX2 Polyclonal antibody

Catalog Number: 18149-1-AP

Featured Product

7 Publications

## Basic Information

## Catalog Number:

18149-1-AP

## Size:

650 µg/ml

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG12838

## GenBank Accession Number:

BC093706

## GeneID (NCBI):

10814

## UNIPROT ID:

Q6PUV4

## Full Name:

complexin 2

## Calculated MW:

134 aa, 15 kDa

## Observed MW:

18-20 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:1000-1:4000

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

IHC 1:50-1:500

IF 1:50-1:500

## Applications

## Tested Applications:

IF/ICC, IHC, IP, WB, ELISA

## Cited Applications:

WB, IP, IHC

## Species Specificity:

human, mouse, rat

## Cited Species:

human, 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 : mouse brain tissue, A549 cells, rat brain tissue

IP : A549 cells,

IHC : human brain tissue,

IF : A549 cells,

## Background Information

Complexins are soluble proteins that regulate the activity of soluble N-ethylmaleimide-sensitive factor attachment protein receptor (SNARE) complexes necessary for vesicle fusion. Neuronal specific complexin 1 (CPLX1) has inhibitory and stimulatory effects on exocytosis by clamping trans-SNARE complexes in a prefusion state and promoting conformational changes to facilitate membrane fusion following cell stimulation. Complexin2 (CPLX2) is a pre-synaptic protein believed to regulate neurotransmitter release from pre-synaptic terminals, it is downregulated in schizophrenic patients suffering from depression, animal models of depression and neurological disorders such as Huntington's disease in which depression is a major symptom.

## Notable Publications

Author	Pubmed ID	Journal	Application
Minati Singh	31072410	Mol Brain	WB
Marius Walus	26304719	Behav Brain Res	WB
Yu Ma	38232800	Life Sci	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

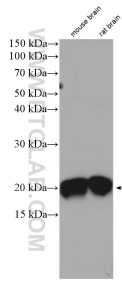
For technical support and original validation data for this product please contact:

T: 4006900926

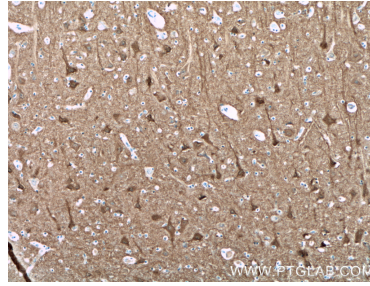
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

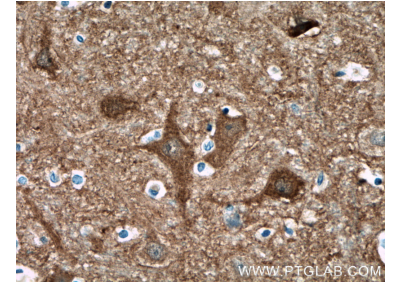
## Selected Validation Data



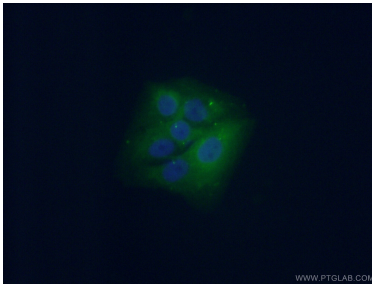
mouse and rat brain tissue were subjected to SDS PAGE followed by western blot with 18149-1-AP (CPLX2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



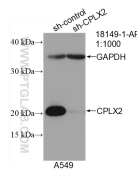
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 18149-1-AP (CPLX2 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



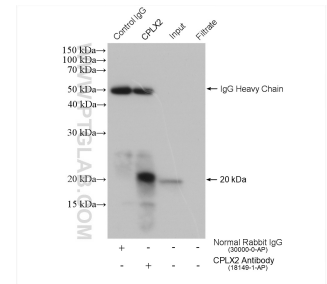
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 18149-1-AP (CPLX2 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed A549 cells using 18149-1-AP (CPLX2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



WB result of CPLX2 antibody (18149-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CPLX2 transfected A549 cells.



IP result of anti-CPLX2 (IP:18149-1-AP, 4ug; Detection:18149-1-AP 1:1000) with A549 cells lysate 600 ug.