

For Research Use Only

CPLX2 Polyclonal antibody

Catalog Number: 18149-1-AP

Featured Product

10 Publications



Basic Information

Catalog Number:

18149-1-AP

Size:

150ul, Concentration: 650 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

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 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP

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/ICC : 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 pre-fusion 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
Xue Wen Ng	39554053	bioRxiv	IF

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

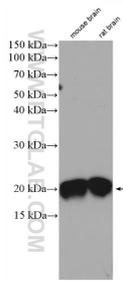
For technical support and original validation data for this product please contact:

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

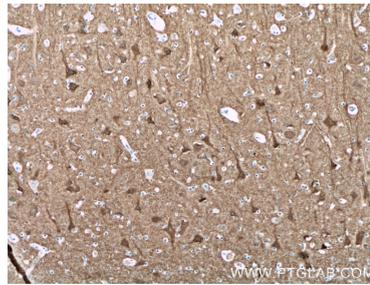
E: proteintech@ptglab.com
W: ptglab.com

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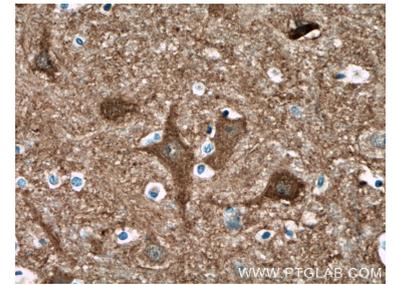
Selected Validation Data



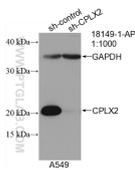
mouse and rat brain tissue were subjected to SDS PAGE followed by western blot with 18149-1-AP (CPLX2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



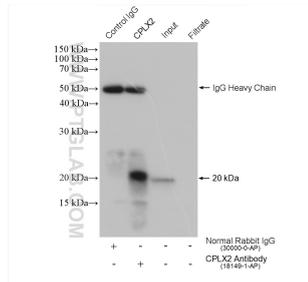
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 18149-1-AP (CPLX2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



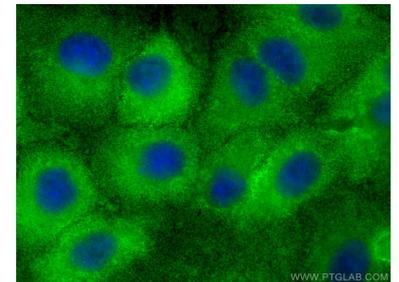
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 18149-1-AP (CPLX2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.



Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using CPLX2 antibody (18149-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).