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CPLX3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10652c

Product Information

Application	IHC-P, WB, E
Primary Accession	Q8WVH0
Other Accession	Q8R1B5, Q0IIE0, NP_001025176.1
Reactivity	Human
Predicted	Bovine, Mouse, Rat, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB30090
Calculated MW	17557
Antigen Region	52-81

Additional Information

Gene ID	594855
Other Names	Complexin-3, Complexin III, CPX III, CPLX3
Target/Specificity	This CPLX3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 52-81 amino acids from the Central region of human CPLX3.
Dilution	IHC-P~~1:100~500 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CPLX3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CPLX3
Function	Complexin that regulates SNARE protein complex-mediated synaptic vesicle fusion (By similarity). Required for the maintenance of synaptic ultrastructure in the adult retina (By similarity). Positively regulates synaptic transmission

	through synaptic vesicle availability and exocytosis of neurotransmitters at photoreceptor ribbon synapses in the retina (By similarity). Suppresses tonic photoreceptor activity and baseline 'noise' by suppression of Ca(2+) vesicle tonic release and the facilitation of evoked synchronous and asynchronous Ca(2+) vesicle release (By similarity).
Cellular Location	Synapse {ECO:0000250|UniProtKB:Q8R1B5}. Cell membrane; Lipid-anchor {ECO:0000250|UniProtKB:Q8R1B5}. Note=Enriched at the synaptic terminal (By similarity). Localized at glycinergic synaptic contacts of AII amacrine cells with OFF cone bipolar cells in the OFF sublamina of the retina inner nuclear layer (By similarity) {ECO:0000250|UniProtKB:Q8R1B5}

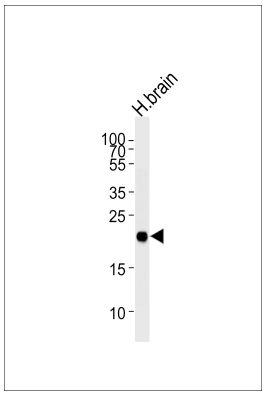
Background

Positively regulates a late step in synaptic vesicle exocytosis (By similarity).

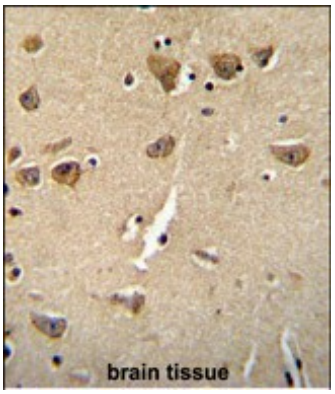
References

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Levy, D., et al. Nat. Genet. (2009) In press :
Reim, K., et al. J. Cell Biol. 169(4):669-680(2005)
Ohira, M., et al. Oncogene 22(35):5525-5536(2003)

Images



Western blot analysis of lysate from human brain tissue lysate, using CPLX3 Antibody (Center)(Cat. #AP10652c). AP10652c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.



CPLX3 Antibody (Center) (Cat. #AP10652c) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CPLX3 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.