

CPLX1 Polyclonal antibody

Catalog Number: 20250-1-AP

Basic Information

Catalog Number:

20250-1-AP

Size:

N/A

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_006651

GeneID (NCBI):

10815

UNIPROT ID:

O14810

Full Name:

complexin 1

Calculated MW:

15 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

ELISA

Species Specificity:

human, mouse, rat

Background Information

Complexin 1 (CPLX1) is a member of the complexin/syntaxin gene family, which are cytosolic proteins that function in synaptic vesicle exocytosis. Complexins are enriched in neurons where they colocalize with syntaxin and SNAP-25. Complexins bind weakly to syntaxin alone and not at all to synaptobrevin and SNAP-25, but strongly to the SNAP receptor-core complex composed of these three molecules. Complexins also compete with alpha-SNAP for binding to the core complex but not with other interacting molecules, including synaptotagmin I, and regulate the sequential interactions of alpha-SNAP and synaptotagmins with the SNAP receptor during exocytosis. CPLX1 binds to the SNAP receptor complex and disrupts it, leading to the release of transmitters. Alterations of complexins may contribute to the molecular substrate for abnormalities of neural connectivity in severe mental disorders.

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:

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