

For Research Use Only

CoraLite® Plus 488-conjugated CPLX1 Polyclonal antibody

Catalog Number: CL488-10246



Basic Information

Catalog Number:

CL488-10246

Concentration:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0387

GenBank Accession Number:

BC002471

GeneID (NCBI):

10815

UNIPROT ID:

O14810

Full Name:

complexin 1

Calculated MW:

15 kDa

Observed MW:

15-20 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IF/ICC: 1:50-1:500

FC (Intra): 0.80 µg per 10⁶ cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

IF/ICC, FC (Intra)

Species Specificity:

human, mouse, rat

Positive Controls:

IF/ICC : SH-SY5Y cells,

FC (Intra) : SH-SY5Y cells,

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. CLPX1 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. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

Aliquoting is unnecessary for -20°C storage

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

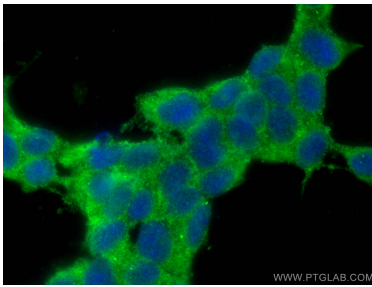
T: 4006900926

E: Proteintech-CN@ptglab.com

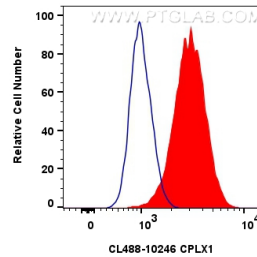
W: ptgcn.com

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Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using Coralite® Plus 488 CPLX1 antibody (CL488-10246) at dilution of 1:200.



1x10⁶ SH-SY5Y cells were intracellularly stained with 0.8 ug Coralite® Plus 488 Cplx1 Polyclonal Antibody (CL488-10246)(red), or 0.8 ug Coralite® Plus 488-conjugated Rabbit IgG control Rabbit PolyAb (CL488-30000) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).