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CPLX2 Blocking Peptide (Center)

Synthetic peptide
Catalog # BP20736c

Specification

CPLX2 Blocking Peptide (Center) - Product Information

Primary Accession	Q6PUV4
Other Accession	P84087, P84086, P84088

CPLX2 Blocking Peptide (Center) - Additional Information

Gene ID 10814

Other Names
Complexin-2, Complexin II, CPX II, Synaphin-1, CPLX2

Target/Specificity
The synthetic peptide sequence is selected from aa 51-63 of HUMAN CPLX2

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CPLX2 Blocking Peptide (Center) - Protein Information

Name CPLX2

Function
Negatively regulates the formation of synaptic vesicle clustering at active zone to the presynaptic membrane in postmitotic neurons. Positively regulates a late step in exocytosis of various cytoplasmic vesicles, such as synaptic vesicles and other secretory vesicles. Also involved in mast cell exocytosis (By similarity).

Cellular Location
Cytoplasm, cytosol {ECO:0000250|UniProtKB:P84087}. Presynapse {ECO:0000250|UniProtKB:P84087}. Nucleus {ECO:0000250|UniProtKB:P84087} Perikaryon {ECO:0000250|UniProtKB:P84087}. Note=Translocated from the perikaryon to the presynaptic terminals during maturation of neuronal cells. In mast cells, cytosol and nucleus. Becomes enriched near plasma membrane following stimulation. {ECO:0000250|UniProtKB:P84087}

Tissue Location
Nervous system. In hippocampus and cerebellum, expressed mainly by excitatory neurons.

Down-regulated in brain cortex from patients suffering from Huntington disease, bipolar disorder or major depression. Down-regulated in cerebellum from patients with schizophrenia.

CPLX2 Blocking Peptide (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

CPLX2 Blocking Peptide (Center) - Images

CPLX2 Blocking Peptide (Center) - Background

Negatively regulates the formation of synaptic vesicle clustering at active zone to the presynaptic membrane in postmitotic neurons. Positively regulates a late step in synaptic vesicle exocytosis. Also involved in mast cell exocytosis (By similarity).

CPLX2 Blocking Peptide (Center) - References

McMahon H.T.,et al.Cell 83:111-119(1995).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Raevskaya N.M.,et al.Gene 359:127-137(2005).
Harrison P.J.,et al.Lancet 352:1669-1673(1998).
Eastwood S.L.,et al.Brain Res. Bull. 55:569-578(2001).