

**CPLX2 Blocking Peptide (Center)**  
**Synthetic peptide**  
**Catalog # BP20735c****Specification**

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**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**

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Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Raevs kaya N.M.,et al.Gene 359:127-137(2005).  
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Eastwood S.L.,et al.Brain Res. Bull. 55:569-578(2001).