

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

**Specification**

**CPLX2 Blocking Peptide (Center) - Product Information**

Primary Accession [O6PUV4](#)  
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

**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).

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}. Cell junction, synapse, 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](#)