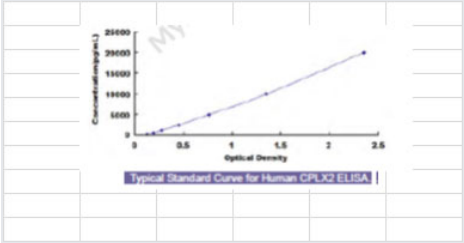
Complexin 2 (CPLX2) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Complexin 2 (CPLX2), ELISA Kit
Full Product Name	Human Complexin 2 (CPLX2) ELISA Kit
Product Gene Name	CPLX2 elisa kit
Product Synonym Names	921-L; CPX-2; CPX2; Synaphin-1
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, plasma and other biological fluids.
Detection Range	0.312-20ng/mL
Sensitivity	0.084ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of CPLX2. No significant cross-reactivity or interference between CPLX2 and analogues was observed.
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level CPLX2 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CPLX2 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	15,394 Da
OMIM	U35100 mRNA
3D Structure	ModBase 3D Structure for Q6PUV4
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CPLX2 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of CPLX2 in human serum, plasma and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CPLX2. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CPLX2. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain CPLX2, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of CPLX2 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of CPLX2 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for CPLX2 purchase	MBS450651 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Complexin 2 (CPLX2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CPLX2. The ELISA analytical biochemical technique of the MBS450651 kit is based on CPLX2 antibody-CPLX2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CPLX2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CPLX2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of CPLX2 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CPLX2. It may not necessarily be applicable to this product.

NCBI GI #	56550065
NCBI GeneID	10814
NCBI Accession #	NP_001008221.1
UniProt Primary Accession #	Q6PUV4
UniProt Secondary Accession #	O09056; Q13329; Q28184; Q52M15; Q64386; B2RAG2
UniProt Related Accession #	Q6PUV4
GenBank Nucleotide #	NM_001008220.1
NCBI Official Full Name	complexin-2
NCBI Official Synonym Full Names	complexin 2
NCBI Official Symbol	CPLX2
NCBI Official Synonym Symbols	CPX2; Hfb1; 921-L; CPX-2
UniProt Protein Name	Complexin-2
UniProt Synonym Protein Names	Complexin II; CPX II; Synaphin-1
Protein Family	Complexin
UniProt Gene Name	CPLX2
UniProt Synonym Gene Names	CPX II
NCBI Protein Information	complexin-2
NCBI Summary for CPLX2	Proteins encoded by the complexin/synaphin gene family are cytosolic proteins that function in synaptic vesicle exocytosis. These proteins bind syntaxin, part of the SNAP receptor. The protein product of this gene binds to the SNAP receptor complex and disrupts it, allowing transmitter release. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for CPLX2	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 ().

Research Articles on CPLX2	**1.** Then results indicated that CPLX2 may be involved in the etiology of schizophrenia and one of its potential biological mechanisms by studying the effects of CPLX2 risk variants on working memory load-dependent neural activity in a frontoparietal network.
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