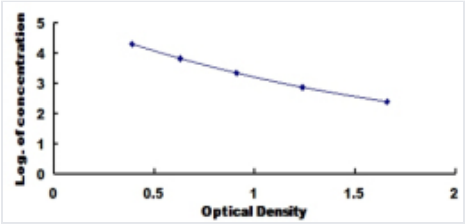
Complexin 2 (CPLX2) ELISA Kit for Human

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	Competitive Inhibition
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Range	246.9-20000pg/mL
Sensitivity	86.3pg/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of Complexin 2 (CPLX2). No significant cross-reactivity or interference between Complexin 2 (CPLX2) and analogues was observed.
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.
Molecular Weight	15,394 Da
OMIM	605033
3D Structure	ModBase 3D Structure for Q6PUV4
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Complexin 2 (CPLX2) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Complexin 2 (CPLX2) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Product Categories/Family for CPLX2 elisa kit	Immune molecule
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.

Related Product Information for CPLX2 elisa kit	This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to Complexin 2 (CPLX2) has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled Complexin 2 (CPLX2) and unlabeled Complexin 2 (CPLX2) (Standards or samples) with the pre-coated antibody specific to Complexin 2 (CPLX2). After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of Complexin 2 (CPLX2) in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of Complexin 2 (CPLX2) in the sample.
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	MBS2020555 is a ready-to-use microwell, strip 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 MBS2020555 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 #	46405548
NCBI GeneID	10814
NCBI Accession #	AAS93622.1
UniProt Primary Accession #	Q6PUV4
UniProt Secondary Accession #	O09056; Q13329; Q28184; Q52M15; Q64386; B2RAG2
UniProt Related Accession #	Q6PUV4
NCBI Official Full Name	complexin 2, partial
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
UniProt Entry Name	CPLX2_HUMAN

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	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 synaptic vesicle exocytosis. Also involved in mast cell exocytosis. Belongs to the complexin/synaphin family. Protein type: Vesicle Chromosomal Location of Human Ortholog: 5q35.2 Cellular Component: mast cell granule; cell soma; dendrite; synapse; cytosol Molecular Function: syntaxin-1 binding; calcium-dependent protein binding Biological Process: regulation of exocytosis; nervous system development; synaptic vesicle exocytosis; positive regulation of synaptic plasticity; mast cell degranulation; cell differentiation; vesicle docking during exocytosis
Research Articles on CPLX2	**1.** Clinical trial of gene-disease association and gene-environment interaction. (HuGE Navigator)
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