Contactin Associated Protein Like Protein 2 (CNTNAP2) ELISA Kit for Human

PRODUCT OVERVIEW

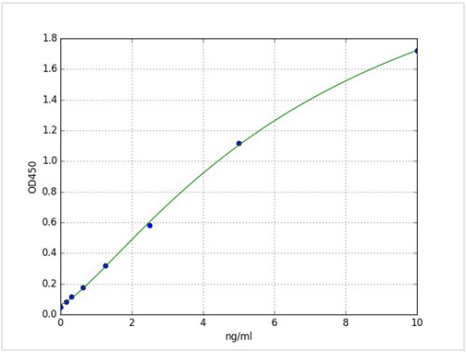
Product Name	Contactin Associated Protein Like Protein 2 (CNTNAP2), ELISA Kit
Full Product Name	Human Contactin Associated Protein Like Protein 2 ELISA Kit
Product Gene Name	CNTNAP2 elisa kit
Product Synonym Names	CNTNAP2/AUTS15/CASPR2/CDFE/NRXN4/PTHSL1/Cell recognition molecule Caspr2/CDFE/CNTNAP2/NRXN4/AUTS15/CDFE/Cell recognition molecule Caspr2/contactin associated protein-like 2/contactin-associated protein 2/contactin-associated protein-like 2/homolog of Drosophila neurexin IV/NRXN4/Caspr2/PTHSL1
Species Reactivity	Human
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C
Molecular Weight	156,267 Da
OMIM	602346
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CNTNAP2 elisa kit	Principle of the Assay||This kit was based on sandwich enzyme-linked immune-sorbent assay technology. anti-Human CNTNAP2 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-Human CNTNAP2 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Human CNTNAP2 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Human CNTNAP2 can be calculated.
Other Notes	Small volumes of CNTNAP2 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 CNTNAP2 purchase	MBS760289 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Contactin Associated Protein Like Protein 2 (CNTNAP2) 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 CNTNAP2. The ELISA analytical biochemical technique of the MBS760289 kit is based on CNTNAP2 antibody-CNTNAP2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CNTNAP2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CNTNAP2. 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 Data & Standard Curve

Results of a typical standard run of a Human CNTNAP2 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	ng/ml	0	0.156	0.313	0.625	1.25	2.5	5	10
Y	OD450	0.069	0.143	0.256	0.364	0.644	0.944	1.521	1.723

Typical Testing Data of CNTNAP2 elisa kit



Typical Standard Curve of CNTNAP2 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CNTNAP2. It may not necessarily be applicable to this product.

NCBI GI #	1857708
NCBI GeneID	8506
NCBI Accession #	AAB48481.1
UniProt Related Accession #	P78357
NCBI Official Full Name	contactin associated protein
NCBI Official Synonym Full Names	contactin associated protein 1
NCBI Official Symbol	CNTNAP1
NCBI Official Synonym Symbols	P190; CASPR; NRXN4; CNTNAP
UniProt Protein Name	Contactin-associated protein 1
UniProt Synonym Protein Names	Neurexin IV; Neurexin-4; p190
Protein Family	Contactin-associated protein
UniProt Gene Name	CNTNAP1
UniProt Synonym Gene Names	CASPR; NRXN4; Caspr; Caspr1
UniProt Entry Name	CNTP1_HUMAN
NCBI Protein Information	contactin-associated protein 1
NCBI Summary for CNTNAP2	The gene product was initially identified as a 190-kD protein associated with the contactin-PTPRZ1 complex. The 1,384-amino acid protein, also designated p190 or CASPR for 'contactin-associated protein,' includes an extracellular domain with several putative protein-protein interaction domains, a putative transmembrane domain, and a 74-amino acid cytoplasmic domain. Northern blot analysis showed that the gene is transcribed predominantly in brain as a transcript of 6.2 kb, with weak expression in several other tissues tested. The architecture of its extracellular domain is similar to that of neurexins, and this protein may be the signaling subunit of contactin, enabling recruitment and activation of intracellular signaling pathways in neurons. [provided by RefSeq, Jan 2009]

UniProt Comments for CNTNAP2	CNTNAP1: Seems to play a role in the formation of functional distinct domains critical for saltatory conduction of nerve impulses in myelinated nerve fibers. Seems to demarcate the paranodal region of the axo-glial junction. In association with contactin may have a role in the signaling between axons and myelinating glial cells. Belongs to the neurexin family. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 17q21 Cellular Component: integral to membrane; integral to plasma membrane; myelin sheath; paranode region of axon; voltage-gated potassium channel complex Molecular Function: protein binding; receptor activity; SH3 domain binding; SH3/SH2 adaptor activity Biological Process: action potential propagation; axon guidance; cell adhesion; cytoskeleton organization and biogenesis; neurite morphogenesis; neuromuscular process controlling balance; neuromuscular process controlling posture; paranodal junction assembly; positive regulation of signal transduction; signal transduction Disease: Lethal Congenital Contracture Syndrome 7
Research Articles on CNTNAP2	**1.** Mutations in CNTNAP1 and ADCY6 are responsible for severe arthrogryposis multiplex congenita with axoglial defects
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/cntnap2-human-elisa-kits/contactin-associated-protein-like-protein-2/760289