

Human CASPR2 ELISA Kit | CNTNAP2 elisa kit

Human CASPR2 ELISA Kit PicoKine

CATALOG # AAA126715	REACTIVITY Human	APPLICATIONS ELISA
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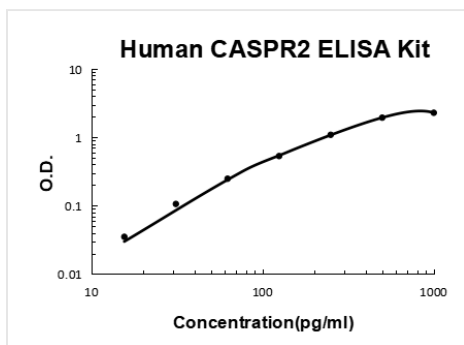
PRODUCT SYNONYMS

CASPR2; Human CASPR2 ELISA Kit PicoKine; CNTNAP2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human CNTNAP2
Samples	Cell culture supernatants, serum and plasma (heparin, EDTA)
Detection Range	15.6 pg/ml - 1,000 pg/ml
Sensitivity	<10 pg/ml
Applicable Applications for CNTNAP2 elisa kit	ELISA
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Ships with gel ice, can store for up to 3 days in room temperature. Freeze upon receiving.)

IMAGES



Standard Curve (Sample)

Human CASPR2 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for CNTNAP2 elisa kit	Background: Contactin-associated protein-like 2 is a protein that in humans is encoded by the CNTNAP2 gene. This gene encodes a member of the neurexin family which functions in the vertebrate nervous system as cell adhesion molecules and receptors. This protein, like other neurexin proteins, contains epidermal growth factor repeats and laminin G domains. In addition, it includes an F5/8 type C domain, discoidin/neuropilin- and fibrinogenlike domains, thrombospondin N-terminal-like domains and a putative PDZ binding site. This protein is localized at the juxtaparanodes of myelinated axons, and mediates interactions between neurons and glia during nervous system development and is also involved in localization of potassium channels within differentiating axons. This gene encompasses almost 1.5% of chromosome 7 and is one of the largest genes in the human genome. It is directly bound and regulated by forkhead box protein P2, a transcription factor related to speech and language development. This gene has been implicated in multiple neurodevelopmental disorders, including Gilles de la Tourette syndrome, schizophrenia, epilepsy, autism, ADHD and intellectual disability. Principle of the Assay: The Picokine™ Human CNTNAP2 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human CNTNAP2 with a 96-well strip plate that is pre-coated with antibody specific for CNTNAP2. The detection antibody is a biotinylated antibody specific for CNTNAP2. The capture antibody is a monoclonal antibody from mouse and the detection antibody is a biotinylated polyclonal antibody from goat. The kit includes Human CNTNAP2 protein as standards. To measure Human CNTNAP2, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Human CNTNAP2 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human CNTNAP2 in the sample.
Product Categories/Family for CNTNAP2 elisa kit	PicoKine ELISA Kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	7662350
NCBI GeneID	26047
NCBI Accession #	NP_054860.1
NCBI GenBank Nucleotide #	NM_014141.5
UniProt Accession #	Q9UHC6; Q14DG2; Q52LV1; Q5H9Q7; Q9UQ12; D3DWG2
Molecular Weight	11,899 Da
NCBI Official Full Name	contactin-associated protein-like 2
NCBI Official Synonym Full Names	contactin associated protein like 2
NCBI Official Symbol	CNTNAP2
NCBI Official Synonym Symbols	CDFE; NRXN4; AUTS15; CASPR2; PTHSL1
NCBI Protein Information	contactin-associated protein-like 2
UniProt Protein Name	Contactin-associated protein-like 2
UniProt Gene Name	CNTNAP2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.