

ARG83254 Human CASPR2 ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG83254 Human CASPR2 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human CASPR2 in Serum, Plasma and Cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	CASPR2
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	13 pg/ml
Detection Range	15.6 pg/ml - 1,000 pg/ml
Sample Type	Serum, Plasma and Cell culture supernatants
Precision	Intra-Assay CV: 6.3% Inter-Assay CV: 7.4%
Alternate Names	CNTNAP2; Contactin Associated Protein 2; KIAA0868; NRXN4; Contactin Associated Protein Like 2; Contactin-Associated Protein-Like 2; Cell Recognition Molecule Caspr2; Caspr2; CASPR2; Homolog Of Drosophila Neurexin IV; AUTS15; PTHSL1; CDFE

Application Instructions

Assay Time	~ 5 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

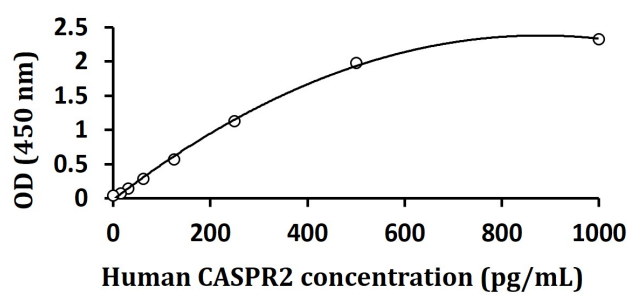
Bioinformation

Gene Symbol	CNTNAP2
Gene Full Name	Contactin Associated Protein 2
Background	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 fibrinogen-like 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.

Function	Required for gap junction formation (Probable). Required, with CNTNAP1, for radial and longitudinal organization of myelinated axons. Plays a role in the formation of functional distinct domains critical for saltatory conduction of nerve impulses in myelinated nerve fibers. Demarcates the juxtaparanodal region of the axo-glial junction.
PTM	Disulfide bond, Glycoprotein, Phosphoprotein
Cellular Localization	Cell junction, Cell projection, Membrane

Images



ARG83254 Human CASPR2 ELISA Kit standard curve image

ARG83254 Human CASPR2 ELISA Kit results of a typical standard run with optical density reading at 450 nm.