

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 |
|------------|-----------|

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. |

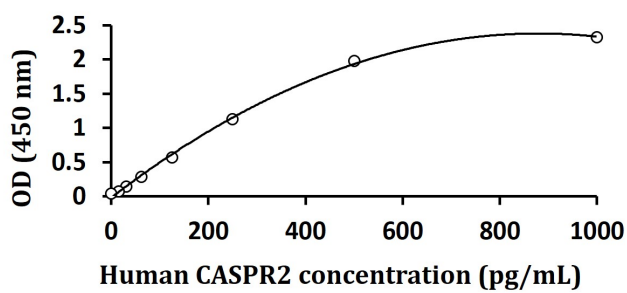
Bioinformation

| | |
|----------------|--|
| 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 juxtapanodal 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.
