Contactin 2 (CNTN2) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Contactin 2 (CNTN2), ELISA Kit
Full Product Name	Human Contactin 2 ELISA Kit
Product Gene Name	CNTN2 elisa kit
Species Reactivity	Human
Assay Type	sandwich
Samples	cell culture supernates, serum and plasma (heparin, EDTA, citrate)
Detection Range	46.9pg/ml-3000pg/ml
Sensitivity	<10pg/ml
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles. (Shipped with wet ice)
Molecular Weight	113,393 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (205012340..205047171). Location: 1q32.1
OMIM	190197
3D Structure	ModBase 3D Structure for Q02246
Detection Target	Contactin 2
Immunogen Sequence	369
Cross-Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Related Product Information for CNTN2 elisa kit	This Human Contactin 2 ELISA Kit is intended for quantitative detection of human Contactin-2 in cell culture supernates, serum and plasma (heparin, EDTA, citrate). Strip well format. Reagents for up to 96 tests. This human Contactin-2 ELISA Kit is based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Contactin-2 has been precoated onto 96-well plates. Standards (Expression system for standard: NSO, Immunogen sequence: S31-N1012) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Contactin-2 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex is added and unbound conjugates are washed away with PBS or TBS buffer. HRP substrate TMB are used to visualize HRP enzymatic reaction. TMB is 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 Contactin-2 amount of sample captured in plate. The capture antibody is a monoclonal antibody from mouse, the detection antibody is a biotinylated polyclonal antibody from goat. Expression system for standard: Contactin-2 is a protein that in humans is encoded by the CNTN2 gene. It is mapped to 1q32.1. This gene encodes a member of the contactin family of proteins, part of the immunoglobulin superfamily of cell adhesion molecules. The encoded glycosylphosphatidylinositol (GPI)-anchored neuronal membrane protein plays a role in the proliferation, migration, and axon guidance of neurons of the developing cerebellum. A mutation in this gene may be associated with adult myoclonic epilepsy.
Other Notes	Small volumes of CNTN2 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 CNTN2 purchase	MBS139692 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Contactin 2 (CNTN2) 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 CNTN2. The ELISA analytical biochemical technique of the MBS139692 kit is based on CNTN2 antibody-CNTN2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CNTN2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CNTN2. 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(%).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CNTN2. It may not necessarily be applicable to this product.

NCBI GI #	4827022
NCBI GeneID	6900
NCBI Accession #	NP_005067.1
UniProt Primary Accession #	Q02246
UniProt Secondary Accession #	P78432; Q5T054
UniProt Related Accession #	Q02246
GenBank Nucleotide #	NM_005076.3
NCBI Official Full Name	contactin-2
NCBI Official Synonym Full Names	contactin 2 (axonal)
NCBI Official Symbol	CNTN2
NCBI Official Synonym Symbols	AXT; TAX; TAX1; TAG-1
UniProt Protein Name	Contactin-2
UniProt Synonym Protein Names	Axonal glycoprotein TAG-1; Axonin-1; Transient axonal glycoprotein 1
Protein Family	Contactin
UniProt Gene Name	CNTN2
UniProt Synonym Gene Names	AXT; TAG1; TAX1; TAX-1
UniProt Entry Name	CNTN2_HUMAN
NCBI Protein Information	contactin-2; TAX-1; axonal glycoprotein TAG-1; axonin-1 cell adhesion molecule; transient axonal glycoprotein 1; contactin 2 (transiently expressed); transiently-expressed axonal glycoprotein
NCBI Summary for CNTN2	The protein encoded by this gene is a member of the immunoglobulin superfamily. It is a glycosylphosphatidylinositol (GPI)-anchored neuronal membrane protein that functions as a cell adhesion molecule. It may play a role in the formation of axon connections in the developing nervous system. It may also be involved in glial tumorigenesis and may provide a potential target for therapeutic intervention. [provided by RefSeq, Jul 2008]

UniProt Comments for CNTN2	CNTN2: May play a role in the initial growth and guidance of axons. May be involved in cell adhesion. Belongs to the immunoglobulin superfamily. Contactin family. Protein type: Membrane protein, GPI anchor; Cell adhesion Chromosomal Location of Human Ortholog: 1q32.1 Cellular Component: voltage-gated potassium channel complex; cell surface; cell soma; integral to plasma membrane; plasma membrane; synapse; myelin sheath Molecular Function: identical protein binding; protein self-association; carbohydrate binding; glycoprotein binding Biological Process: axon guidance; cerebral cortex GABAergic interneuron migration; myelination in the central nervous system; positive regulation of adenosine receptor signaling pathway; axonal fasciculation; regulation of astrocyte differentiation; microtubule cytoskeleton organization and biogenesis; learning; adult walking behavior; negative regulation of neuron differentiation; receptor internalization; clustering of voltage-gated potassium channels; regulation of axon diameter; cell adhesion; regulation of neuronal synaptic plasticity Disease: Epilepsy, Familial Adult Myoclonic, 5
Research Articles on CNTN2	**1.** A single nucleotide deletion in exon 6 of CNTN2 results in a frameshift mutation, segregating in a recessive manner in a consanguineous Egyptian family with epilepsy.
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