Contactin-1 (CNTN1) ELISA Kit for Human

PRODUCT OVERVIEW

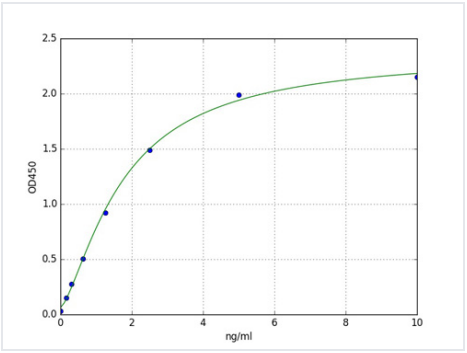
Product Name	Contactin-1 (CNTN1), ELISA Kit
Full Product Name	Human Contactin-1 ELISA Kit
Product Gene Name	CNTN1 elisa kit
Product Synonym Names	CNTN1 (Contactin 1)/Contactin-1/Glycoprotein gp135/Neural cell surface protein F3
Species Reactivity	Human
Assay Type	Sandwich ELISA, Double Antibody
Samples	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	113,388 Da
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CNTN1 elisa kit	Principle of the Assay||This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-Human Contactin-1 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-Human Contactin-1 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 Contactin-1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Human Contactin-1can be calculated.
Other Notes	Small volumes of CNTN1 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 CNTN1 purchase	MBS761296 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Contactin-1 (CNTN1) 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 CNTN1. The ELISA analytical biochemical technique of the MBS761296 kit is based on CNTN1 antibody-CNTN1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CNTN1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CNTN1. 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 Contactin-1 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	0.071	0.149	0.234	0.368	0.625	1.006	1.615	1.907

Typical Testing Data of CNTN1 elisa kit



Typical Standard Curve of CNTN1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CNTN1. It may not necessarily be applicable to this product.

NCBI GI #	227497226
NCBI GeneID	12805
NCBI Accession #	NP_001153120.1
UniProt Secondary Accession #	Q6NXV7; Q8BR42; Q8C6A0
UniProt Related Accession #	P12960
GenBank Nucleotide #	NM_001159648.1
NCBI Official Full Name	contactin-1
NCBI Official Synonym Full Names	contactin 1
NCBI Official Symbol	Cntn1
NCBI Official Synonym Symbols	usl; CNTN; F3cam; AW495098
UniProt Protein Name	Contactin-1
UniProt Synonym Protein Names	Neural cell surface protein F3
Protein Family	Contactin
UniProt Gene Name	Cntn1
UniProt Entry Name	CNTN1_MOUSE
NCBI Protein Information	contactin-1

UniProt Comments for CNTN1	CNTN1: Contactins mediate cell surface interactions during nervous system development. Involved in the formation of paranodal axo-glial junctions in myelinated peripheral nerves and in the signaling between axons and myelinating glial cells via its association with CNTNAP1. Participates in oligodendrocytes generation by acting as a ligand of NOTCH1. Its association with NOTCH1 promotes NOTCH1 activation through the released notch intracellular domain (NICD) and subsequent translocation to the nucleus. Interaction with TNR induces a repulsion of neurons and an inhibition of neurite outgrowth. Defects in CNTN1 are the cause of Compton-North congenital myopathy (CNCM). CNCM is a familial lethal form of congenital onset muscle weakness, inherited in an autosomal-recessive fashion and characterized by a secondary loss of beta2-syntrophin and alpha-dystrobrevin from the muscle sarcolemma, central nervous system involvement, and fetal akinesia. Belongs to the immunoglobulin superfamily. Contactin family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, GPI anchor; Cell adhesion Cellular Component: lipid raft; membrane; myelin sheath; plasma membrane Molecular Function: carbohydrate binding; glycoprotein binding; protein binding Biological Process: cell adhesion; cerebellum development; neurite development; Notch signaling pathway; positive regulation of peptidyl-tyrosine phosphorylation
Research Articles on CNTN1	**1.** The F3/contactin plays a role in promoting adult hippocampal neurogenesis and that this effect correlates with improved synaptic function and memory.
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