Contactin 1 (CNTN1) ELISA Kit for Canine

PRODUCT OVERVIEW

Product Name	Contactin 1 (CNTN1), ELISA Kit
Full Product Name	Canine Contactin 1 ELISA Kit
Product Gene Name	CNTN1 elisa kit
Species Reactivity	Canine
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	113,320 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (41086244..41466214). Location: 12q11-q12
OMIM	600016
3D Structure	ModBase 3D Structure for Q12860
Related Product Information for CNTN1 elisa kit	MBS018896 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 MBS018896 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(%).
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.

ADDITIONAL DETAILS

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

NCBI GI #	366039951
NCBI GeneID	1272
NCBI Accession #	NP_001242993.1
UniProt Primary Accession #	Q12860
UniProt Secondary Accession #	Q12861; Q14030; Q7M4P0; Q8N466; A8K0H9; A8K0Y3
UniProt Related Accession #	Q12860
GenBank Nucleotide #	NM_001256064.1
NCBI Official Full Name	contactin-1 isoform 3
NCBI Official Synonym Full Names	contactin 1
NCBI Official Symbol	CNTN1
NCBI Official Synonym Symbols	F3; GP135
UniProt Protein Name	Contactin-1

UniProt Synonym Protein Names	Glycoprotein gp135; Neural cell surface protein F3
Protein Family	Contactin
UniProt Gene Name	CNTN1
UniProt Entry Name	CNTN1_HUMAN
NCBI Protein Information	contactin-1; glycoprotein gP135; neural cell surface protein F3
NCBI Summary for CNTN1	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. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]
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: Cell adhesion; Membrane protein, GPI anchor Chromosomal Location of Human Ortholog: 12q11-q12 Cellular Component: membrane; plasma membrane Molecular Function: glycoprotein binding; carbohydrate binding Biological Process: axon guidance; Notch signaling pathway; cerebellum development; cell adhesion Disease: Myopathy, Congenital, Compton-north
Research Articles on CNTN1	**1.** a completely novel function for F3/Contactin - modulator of neurogenesis
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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