Cryptic (CFC1) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Cryptic protein (CFC1), ELISA Kit
Full Product Name	Mouse Cryptic protein (CFC1) ELISA Kit
Product Gene Name	CFC1 elisa kit
Species Reactivity	Mouse
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	24,612 Da
OMIM	613853
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Product Categories/Family for CFC1 elisa kit	Cell Biology
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for CFC1 elisa kit	MBS7211305 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cryptic protein (CFC1) 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 CFC1. The ELISA analytical biochemical technique of the MBS7211305 kit is based on CFC1 antibody-CFC1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CFC1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CFC1. 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 CFC1 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 CFC1. It may not necessarily be applicable to this product.

NCBI GI #	46854798
NCBI GeneID	55997
NCBI Accession #	AAH69508.1
UniProt Secondary Accession #	Q53T05; Q9GZR3; B2RCY0; B9EJD3
UniProt Related Accession #	P0CG37
NCBI Official Full Name	Cryptic
NCBI Official Synonym Full Names	cripto, FRL-1, cryptic family 1
NCBI Official Symbol	CFC1
NCBI Official Synonym Symbols	HTX2; CFC1B; DTGA2; CRYPTIC

UniProt Protein Name	Cryptic protein
UniProt Synonym Protein Names	Cryptic family protein 1
Protein Family	Cryptic protein
UniProt Gene Name	CFC1
UniProt Entry Name	CFC1_HUMAN
NCBI Protein Information	cryptic protein; cryptic family protein 1; heterotaxy 2 (autosomal dominant)
NCBI Summary for CFC1	This gene encodes a member of the epidermal growth factor (EGF)- Cripto, Frl-1, and Cryptic (CFC) family, which are involved in signalling during embryonic development. Proteins in this family share a variant EGF-like motif, a conserved cysteine-rich domain, and a C-terminal hydrophobic region. The protein encoded by this gene is necessary for patterning the left-right embryonic axis. Mutations in this gene are associated with defects in organ development, including autosomal visceral heterotaxy and congenital heart disease. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jul 2012]
UniProt Comments for CFC1	CFC1: NODAL coreceptor involved in the correct establishment of the left-right axis. May play a role in mesoderm and/or neural patterning during gastrulation. Defects in CFC1 are the cause of visceral heterotaxy autosomal type 2 (HTX2). A form of visceral heterotaxy, a complex disorder due to disruption of the normal left-right asymmetry of the thoracoabdominal organs. It results in an abnormal arrangement of visceral organs, and a wide variety of congenital defects including cardiac malformations and situs inversus or situs ambiguus. Defects in CFC1 are a cause of transposition of the great arteries dextro-looped type 2 (DTGA2). A congenital heart defect consisting of complete inversion of the great vessels, so that the aorta incorrectly arises from the right ventricle and the pulmonary artery incorrectly arises from the left ventricle. This creates completely separate pulmonary and systemic circulatory systems, an arrangement that is incompatible with life. Patients often have atrial and/or ventricular septal defects or other types of shunting that allow some mixing between the circulations in order to support life minimally, but surgical intervention is always required. Defects in CFC1 are a cause of conotruncal heart malformations (CTHM). CTHM consist of cardiac outflow tract defects, such as tetralogy of Fallot, pulmonary atresia, double-outlet right ventricle, truncus arteriosus communis, and aortic arch anomalies. Protein type: Membrane protein, GPI anchor Chromosomal Location of Human Ortholog: 2q21.1 Cellular Component: plasma membrane; extracellular region Biological Process: gastrulation; determination of left/right symmetry Disease: Heterotaxy, Visceral, 2, Autosomal; Transposition Of The Great Arteries, Dextro-looped 2; Conotruncal Heart Malformations
Research Articles on CFC1	**1.** CFC1 may be involved in the etiology of non-syndromic congenital heart disease in a Chinese population.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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