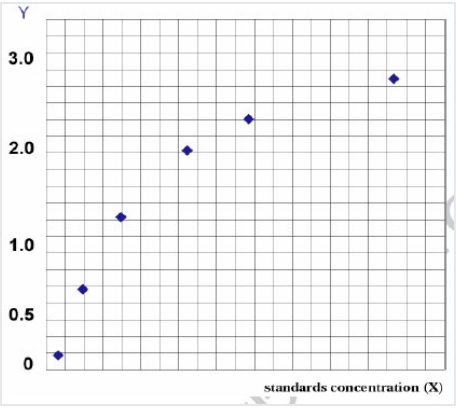
CTD Phosphatase 1 (CTDP1) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	CTD Phosphatase 1 (CTDP1), ELISA Kit
Full Product Name	Human CTD Phosphatase 1 ELISA Kit
Product Gene Name	CTDP1 elisa kit
Species Reactivity	Human
Assay Type	Competitive
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Detection Range	2.5-50ng/mL
Sensitivity	0.1ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	93,485 Da
OMIM	604927
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
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for CTDP1 elisa kit	**Intended Uses:** This CPN IGM ELISA kit is intended Laboratory for research use only.The Stop Solution changes the color from blue to yellow and the intensity of the color is measured at 450 nm using a spectrophotometer. In order to measure the concentration ofCPN IGM in the sample, thisCPN IGM ELISA Kit includes a set of calibration standards. The calibration standards are assayed at the same time as the samples and allow the operator to produce a standard curve of Optical Density versusCPN IGM concentration. The concentration ofCPN IGM in the samples is then determined by comparing the O.D. of the samples to the standard curve. **Principle of the Assay:** This CPN IGM enzyme linked immunosorbent assay applies a technique called a quantitative sandwich immunoassay. The microtiter plate provided in this kit has been pre-coated with a monoclonal antibody specific forCPN IGM. Standards or samples are then added to the microtiter plate wells andCPN IGM if present, will bind to the antibody pre-coated wells. In order to quantitatively determine the amount ofCPN IGM present in the sample, a standardized preparation of horseradish peroxidase (HRP)-conjugated polyclonal antibody, specific forCPN IGM are added to each well to "sandwich" theCPN IGM immobilized on the plate. The microtiter plate undergoes incubation, and then the wells are thoroughly washed to remove all unbound components. Next, A and B substrate solution is added to each well. The enzyme (HRP) and substrate are allowed to react over a short incubation period.Only those wells that containCPN IGM and enzyme-conjugated antibody will exhibit a change in colour. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the colour change is measured spectrophotometrically at a wavelength of 450 nm.
Other Notes	Small volumes of CTDP1 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 CTDP1 purchase	MBS726389 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the CTD Phosphatase 1 (CTDP1) 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 CTDP1. The ELISA analytical biochemical technique of the MBS726389 kit is based on CTDP1 antibody-CTDP1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CTDP1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CTDP1. 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 Testing Data/Standard Curve (for reference only) of CTDP1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CTDP1. It may not necessarily be applicable to this product.

NCBI GI #	30962890
NCBI GeneID	9150
NCBI Accession #	AAH52576.1
UniProt Secondary Accession #	Q7Z644; Q96BZ1; Q9Y6F5; A8MY97
UniProt Related Accession #	Q9Y5B0
NCBI Official Full Name	CTDP1 protein, partial
NCBI Official Synonym Full Names	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) phosphatase, subunit 1
NCBI Official Symbol	CTDP1
NCBI Official Synonym Symbols	FCP1; CCFDN
UniProt Protein Name	RNA polymerase II subunit A C-terminal domain phosphatase
UniProt Synonym Protein Names	TFIIF-associating CTD phosphatase
Protein Family	Ubiquitin-like domain-containing CTD phosphatase
UniProt Gene Name	CTDP1
UniProt Synonym Gene Names	FCP1
UniProt Entry Name	CTDP1_HUMAN
NCBI Protein Information	RNA polymerase II subunit A C-terminal domain phosphatase; serine phosphatase FCP1a; TFIIF-associating CTD phosphatase 1; CTD of POLR2A, phosphatase of, subunit 1; transcription factor IIF-associating CTD phosphatase 1
NCBI Summary for CTDP1	This gene encodes a protein which interacts with the carboxy-terminus of the RAP74 subunit of transcription initiation factor TFIIF, and functions as a phosphatase that processively dephosphorylates the C-terminus of POLR2A (a subunit of RNA polymerase II), making it available for initiation of gene expression. Mutations in this gene are associated with congenital cataracts, facial dysmorphism and neuropathy syndrome (CCFDN). Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Feb 2011]

UniProt Comments for CTDP1	CTDP1: a phospho-serine/threonine protein phosphatase which interacts with the carboxy-terminus of transcription initiation factor TFIIF-alpha, a transcription factor which regulates elongation as well as initiation by RNA polymerase II. Its phosphorylation increases binding to TFIIF-alpha, affecting transcription elongation. Alternative splicing results in two different isoforms. Protein type: Motility/polarity/chemotaxis; EC 3.1.3.16; Protein phosphatase, Ser/Thr (non-receptor); Transcription initiation complex Chromosomal Location of Human Ortholog: 18q23 Cellular Component: nucleoplasm; spindle pole; centrosome; cytoplasm; spindle; midbody; spindle midzone; actin cytoskeleton Molecular Function: DNA-directed RNA polymerase activity; CTD phosphatase activity Biological Process: transcription from RNA polymerase II promoter; viral reproduction; cell division; positive regulation of viral transcription; RNA elongation from RNA polymerase II promoter; gene expression; protein amino acid dephosphorylation; exit from mitosis Disease: Congenital Cataracts, Facial Dysmorphism, And Neuropathy
Research Articles on CTDP1	**1.** Data propose that Fcp1 has a crucial role in the liaison between dephosphorylation and ubiquitination that drives mitosis exit.
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
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.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/ctdp1-human-elisa-kits/ctd-phosphatase-1/726389