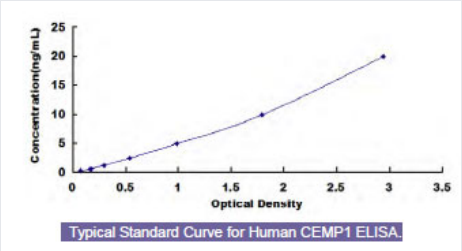
Cementum Protein 1 (CEMP1) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cementum Protein 1 (CEMP1), ELISA Kit
Full Product Name	Human Cementum Protein 1 (CEMP1) ELISA Kit
Product Gene Name	CEMP1 elisa kit
Product Synonym Names	CALD1; CDM; H-CAD; L-CAD; NAG22
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, plasma and other biological fluids.
Detection Range	0.312-20ng/mL
Sensitivity	0.124ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of CEMP1. No significant cross-reactivity or interference between CEMP1 and analogues was observed.
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level CEMP1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CEMP1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	25,959 Da
OMIM	AY584596 mRNA
3D Structure	ModBase 3D Structure for Q6PRD7
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CEMP1 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of CEMP1 in human serum, plasma and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CEMP1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CEMP1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain CEMP1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of CEMP1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of CEMP1 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 CEMP1 purchase	MBS452840 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cementum Protein 1 (CEMP1) 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 CEMP1. The ELISA analytical biochemical technique of the MBS452840 kit is based on CEMP1 antibody-CEMP1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CEMP1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CEMP1. 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 CEMP1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CEMP1. It may not necessarily be applicable to this product.

NCBI GI #	115292438
NCBI GeneID	752014
NCBI Accession #	NP_001041677.1
UniProt Primary Accession #	Q6PRD7
UniProt Secondary Accession #	B2RUY1
UniProt Related Accession #	Q6PRD7
GenBank Nucleotide #	NM_001048212.3
NCBI Official Full Name	cementoblastoma-derived protein 1
NCBI Official Synonym Full Names	cementum protein 1
NCBI Official Symbol	CEMP1
NCBI Official Synonym Symbols	CP23; CP-23
UniProt Protein Name	Cementoblastoma-derived protein 1
UniProt Synonym Protein Names	Cementum protein 1; Cementum protein 23; CP-23
Protein Family	Cementoblastoma-derived protein
UniProt Gene Name	CEMP1
UniProt Synonym Gene Names	CP23; CP-23
NCBI Protein Information	cementoblastoma-derived protein 1
UniProt Comments for CEMP1	Enzyme and pathway databasesBioCyc Collection of Pathway/Genome DatabasesMore...BioCyciZFISH:G66-33517-MONOMER.
Research Articles on CEMP1	**1.** The synthesis of hydroxyapatite with different crystallinities by controlling the concentration of recombinant CEMP1 for biological application.

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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