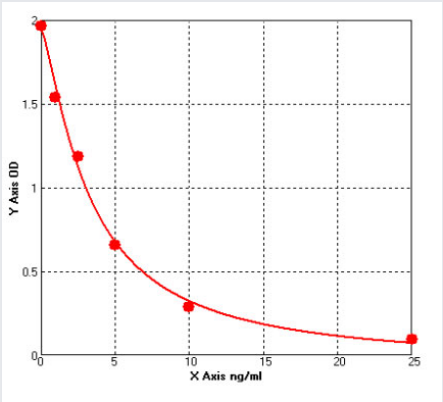
Centrin 2 (CETN2) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Centrin 2 (CETN2), ELISA Kit
Full Product Name	Human Centrin 2 (CETN2) ELISA Kit
Product Gene Name	CETN2 elisa kit
Species Reactivity	Human
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	0.1 ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of CETN2. No significant cross-reactivity or interference between CETN2 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between CETN2 and all the analogues, therefore, cross reaction may still exist in some cases.
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	19,156 Da
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 CETN2 elisa kit	Signal Transduction
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for CETN2 elisa kit	Principle of the Assay: CETN2 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-CETN2 antibody and an CETN2-HRP conjugate. The assay sample and buffer are incubated together with CETN2-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the CETN2 concentration since CETN2 from samples and CETN2-HRP conjugate compete for the anti-CETN2 antibody binding site. Since the number of sites is limited, as more sites are occupied by CETN2 from the sample, fewer sites are left to bind CETN2-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CETN2 concentration in each sample is interpolated from this standard curve. Intended Uses: This CETN2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human CETN2. This ELISA kit for research use only, not for therapeutic or test applications!
Other Notes	Small volumes of CETN2 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 CETN2 purchase	MBS7236339 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Centrin 2 (CETN2) 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 CETN2. The ELISA analytical biochemical technique of the MBS7236339 kit is based on CETN2 antibody-CETN2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CETN2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CETN2. 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 CETN2 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CETN2. It may not necessarily be applicable to this product.

NCBI GI #	79326379
NCBI GeneID	829855
NCBI Accession #	NP_001031798.1
UniProt Secondary Accession #	Q8LCE6
UniProt Related Accession #	O23184
GenBank Nucleotide #	NM_001036721.1
NCBI Official Full Name	centrin 2
NCBI Official Symbol	CEN2
NCBI Official Synonym Symbols	AP22.11; AP22_11; CEN2; centrin 2
UniProt Protein Name	Calcium-binding protein CML19
UniProt Synonym Protein Names	Calmodulin-like protein 19; Centrin 2; AtCEN2
Protein Family	Centrin
UniProt Gene Name	CML19
UniProt Synonym Gene Names	CEN2; At4g37010; AP22.11; C7A10.350; AtCEN2
UniProt Entry Name	CML19_ARATH
NCBI Protein Information	centrin 2
NCBI Summary for CETN2	Encodes a member of the Centrin family. Mutants are hypersensitive to UV and prone to UV induced DNA damage. Based on sequence similarity and mutant phenotype CEN2 is thought to be involved in nucelotide excision repair/DNA repair.
UniProt Comments for CETN2	Potential calcium sensor that binds calcium in vitro (PubMed:14688294). Modulates homologous recombination and nucleotide excision repair (NER) (PubMed:15155891). Involved in the early response to UV irradiation (PubMed:16786311).
Research Articles on CETN2	**1.** RAD4 interacts with the distal EF-hand Ca(2+) binding domain of CEN2 and this interaction is required for efficient nucleotide excision repair. [CEN2]
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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