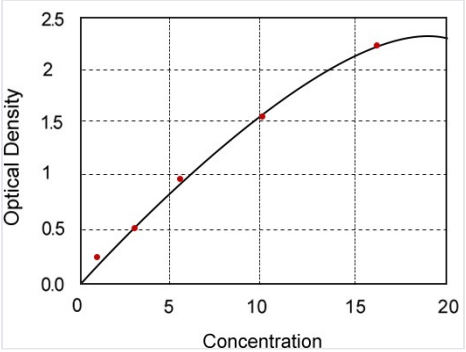
Copine 1 (CPNE1) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Copine I (CPNE1), ELISA Kit
Full Product Name	Human Copine I (CPNE1) ELISA Kit
Product Gene Name	CPNE1 elisa kit
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	Serum, plasma, cell culture supernates, cell lysates, tissue homogenates
Detection Range	0.05ng/ml - 10ng/ml
Sensitivity	0.027ng/ml
Preparation and Storage	Store at 2 to 8 degree C for 6 months.
Molecular Weight	59,059 Da
3D Structure	ModBase 3D Structure for Q99829
Intra-Assay	CV<8%
Inter-Assay	CV<10%
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CPNE1 elisa kit	Intended Uses: This sandwich kit is for the accurate quantitative detection of human Copine I (also known as CPNE1) in serum, plasma, cell culture supernates, cell lysates, tissue homogenates. Principles of the Assay: This kit is an Enzyme-Linked Immunosorbent Assay (ELISA). The plate has been pre-coated with human CPNE1 antibody. CPNE1 present in the sample is added and binds to antibodies coated on the wells. And then biotinylated human CPNE1 Antibody is added and binds to CPNE1 in the sample. Then Streptavidin-HRP is added and binds to the Biotinylated CPNE1 antibody. After incubation unbound Streptavidin-HRP is washed away during a washing step. Substrate solution is then added and color develops in proportion to the amount of human CPNE1. The reaction is terminated by addition of acidic stop solution and absorbance is measured at 450 nm.
Other Notes	Small volumes of CPNE1 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 CPNE1 purchase	MBS164735 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Copine I (CPNE1) 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 CPNE1. The ELISA analytical biochemical technique of the MBS164735 kit is based on CPNE1 antibody-CPNE1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CPNE1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CPNE1. 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 CPNE1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CPNE1. It may not necessarily be applicable to this product.

NCBI GI #	311893345
NCBI GeneID	8904
NCBI Accession #	NP_001185792.1
UniProt Primary Accession #	Q99829
UniProt Secondary Accession #	Q6IBL3; Q9H243; Q9NTZ7; E1P5Q4
UniProt Related Accession #	Q99829
GenBank Nucleotide #	NM_001198863.1
NCBI Official Full Name	copine-1 isoform c
NCBI Official Synonym Full Names	copine 1
NCBI Official Symbol	CPNE1
NCBI Official Synonym Symbols	CPN1; COPN1
UniProt Protein Name	Copine-1
UniProt Synonym Protein Names	Chromobindin 17
Protein Family	Copine
UniProt Gene Name	CPNE1
UniProt Synonym Gene Names	CPN1
NCBI Protein Information	copine-1
NCBI Summary for CPNE1	Calcium-dependent membrane-binding proteins may regulate molecular events at the interface of the cell membrane and cytoplasm. This gene encodes a calcium-dependent protein that also contains two N-terminal type II C2 domains and an integrin A domain-like sequence in the C-terminus. However, the encoded protein does not contain a predicted signal sequence or transmembrane domains. This protein has a broad tissue distribution and it may function in membrane trafficking. This gene and the gene for RNA binding motif protein 12 overlap at map location 20q11.21. Alternate splicing results in multiple transcript variants encoding different proteins. [provided by RefSeq, Aug 2008]

UniProt Comments for CPNE1	Calcium-dependent phospholipid-binding protein that plays a role in calcium-mediated intracellular processes (PubMed:14674885). Involved in the TNF-alpha receptor signaling pathway in a calcium-dependent manner (PubMed:14674885). Exhibits calcium-dependent phospholipid binding properties (PubMed:9430674, PubMed:19539605). Plays a role in neuronal progenitor cell differentiation; induces neurite outgrowth via a AKT-dependent signaling cascade and calcium-independent manner (PubMed:23263657, PubMed:25450385). May recruit target proteins to the cell membrane in a calcium-dependent manner (PubMed:12522145). May function in membrane trafficking (PubMed:9430674). Involved in TNF-alpha-induced NF-kappa-B transcriptional repression by inducing endoprotease processing of the transcription factor NF-kappa-B p65/RELA subunit (PubMed:18212740). Also induces endoprotease processing of NF-kappa-B p50/NFKB1, p52/NFKB2, RELB and REL (PubMed:18212740).
Research Articles on CPNE1	**1.** Results demonstrated that CPNE1 was highly expressed in the osteosarcoma (OS) tissues and cell lines. Its knockdown significantly inhibited cell proliferation, colony formation, invasion and metastasis in OS cell lines.
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