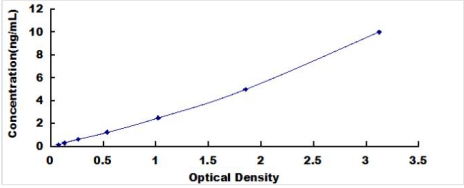
Capping Protein Muscle Z Line Beta (CAPZb) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Capping Protein Muscle Z Line Beta (CAPZb), ELISA Kit
Full Product Name	Human Capping Protein Muscle Z Line Beta (CAPZb) ELISA Kit
Product Gene Name	CAPZb elisa kit
Product Synonym Names	CAPZ; CAPB; CAPPB; F-Actin-Capping Protein Subunit Beta
Species Reactivity	Human
Assay Type	Sandwich
Samples	Tissue Homogenates, Cell Lysates or Other Biological Fluids.
Detection Range	0.156-10ng/mL
Sensitivity	0.052ng/mL
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.
Molecular Weight	â€“ Da
OMIM	601572
3D Structure	ModBase 3D Structure for P47756
RTU ELISA Kit's Advantage	The Ready-To-Use (RTU) Kits require fewer steps in setup and take less time to run. Detection Solutions are pre-diluted and total incubation time is shorter than many other ELISA Kits.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CAPZb elisa kit	Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CAPZb. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CAPZb. 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 CAPZb, 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 CAPZb in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of CAPZb 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 CAPZb purchase	MBS458112 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Capping Protein Muscle Z Line Beta (CAPZb) 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 CAPZb. The ELISA analytical biochemical technique of the MBS458112 kit is based on CAPZb antibody-CAPZb antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CAPZb antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CAPZb. 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 CAPZb elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	330864679
NCBI GeneID	832
NCBI Accession #	NP_001193469.1
UniProt Primary Accession #	P47756
UniProt Secondary Accession #	Q32Q68; Q5U0L4; Q8TB49; Q9NUC4
UniProt Related Accession #	P47756
GenBank Nucleotide #	NM_001206540.2
NCBI Official Full Name	F-actin-capping protein subunit beta isoform 2
NCBI Official Synonym Full Names	capping actin protein of muscle Z-line subunit beta
NCBI Official Symbol	CAPZB
NCBI Official Synonym Symbols	CAPB; CAPZ; CAPPB
UniProt Protein Name	F-actin-capping protein subunit beta
UniProt Synonym Protein Names	CapZ beta
Protein Family	F-actin-capping protein
UniProt Gene Name	CAPZB
NCBI Protein Information	F-actin-capping protein subunit beta
NCBI Summary for CAPZb	This gene encodes the beta subunit of the barbed-end actin binding protein, which belongs to the F-actin capping protein family. The capping protein is a heterodimeric actin capping protein that blocks actin filament assembly and disassembly at the fast growing (barbed) filament ends and functions in regulating actin filament dynamics as well as in stabilizing actin filament lengths in muscle and nonmuscle cells. A pseudogene of this gene is located on the long arm of chromosome 2. Multiple alternatively spliced transcript variants encoding different isoforms have been found.[provided by RefSeq, Aug 2013]
UniProt Comments for CAPZb	F-actin-capping proteins bind in a Ca2+-independent manner to the fast growing ends of actin filaments (barbed end) thereby blocking the exchange of subunits at these ends. Unlike other capping proteins (such as gelsolin and severin), these proteins do not sever actin filaments. Plays a role in the regulation of cell morphology and cytoskeletal organization.
Research Articles on CAPZb	**1.** replication confirmed at genome-wide significance the association of loci at FOXE1 with hypothyroidism, and PDE8B, CAPZB and PDE10A with serum TSH. A total of 12 SNPs seemed to explain nearly 7% of the serum TSH variation
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