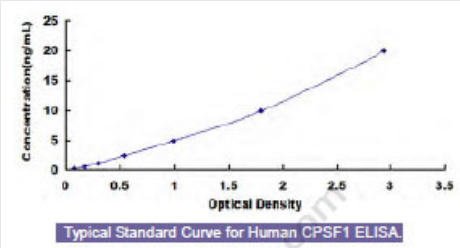
Cleavage and Polyadenylation Specific Factor 1 (CPSF1) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cleavage And Polyadenylation Specific Factor 1 (CPSF1), ELISA Kit
Full Product Name	Human Cleavage And Polyadenylation Specific Factor 1 (CPSF1) ELISA Kit
Product Gene Name	CPSF1 elisa kit
Product Synonym Names	CPSF160; Cleavage and polyadenylation specificity factor 160 kDa subunit
Species Reactivity	Human
Assay Type	Sandwich
Samples	Tissue homogenates and other biological fluids.
Detection Range	0.312-20ng/mL
Sensitivity	0.129ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of CPSF1. No significant cross-reactivity or interference between CPSF1 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 CPSF1 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 CPSF1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	160,884 Da
OMIM	U37012 mRNA
3D Structure	ModBase 3D Structure for Q10570
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CPSF1 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of CPSF1 in human tissue homogenates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CPSF1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CPSF1. 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 CPSF1, 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 CPSF1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of CPSF1 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 CPSF1 purchase	MBS452011 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cleavage And Polyadenylation Specific Factor 1 (CPSF1) 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 CPSF1. The ELISA analytical biochemical technique of the MBS452011 kit is based on CPSF1 antibody-CPSF1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CPSF1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CPSF1. 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 CPSF1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CPSF1. It may not necessarily be applicable to this product.

NCBI GI #	56676371
NCBI GeneID	29894
NCBI Accession #	NP_037423.2
UniProt Primary Accession #	Q10570
UniProt Secondary Accession #	Q96AF0
UniProt Related Accession #	Q10570
GenBank Nucleotide #	NM_013291.2
NCBI Official Full Name	cleavage and polyadenylation specificity factor subunit 1
NCBI Official Synonym Full Names	cleavage and polyadenylation specific factor 1
NCBI Official Symbol	CPSF1
NCBI Official Synonym Symbols	CPSF160; P/cl.18; HSU37012
UniProt Protein Name	Cleavage and polyadenylation specificity factor subunit 1
UniProt Synonym Protein Names	Cleavage and polyadenylation specificity factor 160 kDa subunit; CPSF 160 kDa subunit
UniProt Gene Name	CPSF1
UniProt Synonym Gene Names	CPSF160; CPSF 160 kDa subunit
NCBI Protein Information	cleavage and polyadenylation specificity factor subunit 1
NCBI Summary for CPSF1	Cleavage and polyadenylation specificity factor (CPSF) is a multisubunit complex that plays a central role in 3-prime processing of pre-mRNAs. CPSF recognizes the AAUAAA signal in the pre-mRNA and interacts with other proteins to facilitate both RNA cleavage and poly(A) synthesis. CPSF1 is the largest subunit of the CPSF complex (Murthy and Manley, 1995 [PubMed 7590244]).[supplied by OMIM, Mar 2008]
UniProt Comments for CPSF1	Component of the cleavage and polyadenylation specificity factor (CPSF) complex that plays a key role in pre-mRNA 3'-end formation, recognizing the AAUAAA signal sequence and interacting with poly(A) polymerase and other factors to bring about cleavage and poly(A) addition. This subunit is involved in the RNA recognition step of the polyadenylation reaction.

Research Articles on CPSF1	**1.** CPSF1 was identified among protein-binding candidates. A consensus polyadenylation signal AAUAAA is present in intron 6 of IL7 receptor directly downstream from the 5' splice site. Mutations to this site and CPSF1 knockdown increased exon 6 inclusion.
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