CCAAT/Enhancer Binding Protein Alpha (C/EBPAlpha) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	CCAAT/Enhancer binding protein Alpha (C/EBPAlpha), ELISA Kit
Full Product Name	Human CCAAT/Enhancer binding protein Alpha ELISA Kit
Product Gene Name	C/EBPAlpha elisa kit
Species Reactivity	Human
Assay Type	Competitive
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Detection Range	0.5-10ng/mL
Sensitivity	0.1ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	37,561 Da
OMIM	116897
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 C/EBPAlpha elisa kit	Epigenetics and Nuclear Signaling
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for C/EBPAlpha elisa kit	MBS726010 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the CCAAT/Enhancer binding protein Alpha (C/EBPAlpha) 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 C/EBPAlpha. The ELISA analytical biochemical technique of the MBS726010 kit is based on C/EBPAlpha antibody-C/EBPAlpha antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect C/EBPAlpha antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, C/EBPAlpha. 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(%).
Other Notes	Small volumes of C/EBPAlpha 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.

ADDITIONAL DETAILS

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

NCBI GI #	28872794
NCBI GeneID	1050
NCBI Accession #	NP_004355.2
UniProt Secondary Accession #	P78319; Q05CA4; A7LNP2
UniProt Related Accession #	P49715

GenBank Nucleotide #	NM_004364.4
NCBI Official Full Name	CCAAT/enhancer-binding protein alpha isoform a
NCBI Official Synonym Full Names	CCAAT/enhancer binding protein (C/EBP), alpha
NCBI Official Symbol	CEBPA
NCBI Official Synonym Symbols	CEBP; C/EBP-alpha
UniProt Protein Name	CCAAT/enhancer-binding protein alpha
Protein Family	CCAAT/enhancer-binding protein
UniProt Gene Name	CEBPA
UniProt Synonym Gene Names	C/EBP alpha
UniProt Entry Name	CEBPA_HUMAN
NCBI Protein Information	CCAAT/enhancer-binding protein alpha
NCBI Summary for C/EBPAlpha	This intronless gene encodes a transcription factor that contains a basic leucine zipper (bZIP) domain and recognizes the CCAAT motif in the promoters of target genes. The encoded protein functions in homodimers and also heterodimers with CCAAT/enhancer-binding proteins beta and gamma. Activity of this protein can modulate the expression of genes involved in cell cycle regulation as well as in body weight homeostasis. Mutation of this gene is associated with acute myeloid leukemia. The use of alternative in-frame non-AUG (GUG) and AUG start codons results in protein isoforms with different lengths. Differential translation initiation is mediated by an out-of-frame, upstream open reading frame which is located between the GUG and the first AUG start codons. [provided by RefSeq, Dec 2013]
UniProt Comments for C/EBPAlpha	C/EBP-alpha: a bZIP transcription factor which can form homodimers or heterodimers with the related proteins CEBP-beta and CEBP-gamma. Binds to the promoter and modulate the expression of the gene encoding leptin, a protein that plays an important role in body weight homeostasis. Can interact with CDK2 and CDK4, thereby inhibiting these kinases and causing growth arrest in cultured cells. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 19q13.1 Cellular Component: Rb-E2F complex; nuclear matrix; nucleus Molecular Function: RNA polymerase II transcription factor activity, enhancer binding; protein binding; protein homodimerization activity; DNA binding; protein heterodimerization activity; protein complex binding; transcription factor activity; transcription factor binding Biological Process: transcription from RNA polymerase II promoter; fat cell differentiation; embryonic placenta development; macrophage differentiation; viral reproduction; cell maturation; response to glucocorticoid stimulus; negative regulation of transcription from RNA polymerase II promoter; glucose homeostasis; negative regulation of cell proliferation; response to vitamin B2; acute-phase response; inner ear development; cholesterol metabolic process; mitochondrion organization and biogenesis; generation of precursor metabolites and energy; organ regeneration; transcription, DNA-dependent; granulocyte differentiation; cytokine and chemokine mediated signaling pathway; negative regulation of cyclin-dependent protein kinase activity; liver development; positive regulation of osteoblast differentiation; positive regulation of proteasomal ubiquitin-dependent protein catabolic process; white fat cell differentiation; brown fat cell differentiation; positive regulation of fat cell differentiation; positive regulation of transcription from RNA polymerase III promoter; myeloid cell differentiation; positive regulation of transcription from RNA polymerase II promoter; lung development; urea cycle Disease: Leukemia, Acute Myeloid
Research Articles on C/EBPAlpha	**1.** Altogether, our data provide an explanation for low HK3 and KLF5 expression in particular AML subtype and establish these genes as novel CEBPA targets during neutrophil differentiation.

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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/c-ebpalpha-human-elisa-kits/ccaat-enhancer-binding-protein-alpha/726010