

## Datasheet for ABIN7563431 CEBPA Protein (AA 1-359) (His tag)



Overview

Quantity:	1 mg
Target:	CEBPA
Protein Characteristics:	AA 1-359
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CEBPA protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat Cebpa Protein expressed in mammalien cells.
Sequence:	MESADFYEVE PRPPMSSHLQ SPPHAPSNAA FGFPRGAGPA PPPAPPAAPE PLGGICEHET
	SIDISAYIDP AAFNDEFLAD LFQHSRQQEK AKAAAGPAGG GGDFDYPGAP AGPGGAVMSA
	GAHGPPPGYG CAAAGYLDGR LEPLYERVGA PALRPLVIKQ EPREEDEAKQ LALAGLFPYQ
	PPPPPPPPHP HASPAHLAAP HLQFQIAHCG QTTMHLQPGH PTPPPTPVPS PHAAPALGAA
	GLPGPGSALK GLAGAHPDLR TGGGGGGSGA GAGKAKKSVD KNSNEYRVRR ERNNIAVRKS
	RDKAKQRNVE TQQKVLELTS DNDRLRKRVE QLSRELDTLR GIFRQLPESS LVKAMGNCA
	Sequence without tag. The proposed Purification-Tag is based on experiences with the
	expression system, a different complexity of the protein could make another tag necessary.
	In case you have a special request, please contact us.
Characteristics:	Key Benefits:

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	<ul> <li>Made to order protein - from design to production - by highly experienced protein experts.</li> <li>Protein expressed in mammalien cells and purified in one-step affinity chromatography</li> <li>The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.
	If you are not interested in a full length protein, please contact us for individual protein fragments.
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

## Target Details

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Target:	CEBPA	
Alternative Name:	Cebpa (CEBPA Products)	
Background:	CCAAT/enhancer-binding protein alpha (C/EBP alpha),FUNCTION: Transcription factor that	
	coordinates proliferation arrest and the differentiation of myeloid progenitors, adipocytes,	
	hepatocytes, and cells of the lung and the placenta (PubMed:8415748, PubMed:15107404,	
	PubMed:15589173, PubMed:36228616). Binds directly to the consensus DNA sequence 5'-	
	T[TG]NNGNAA[TG]-3' acting as an activator on distinct target genes. During early	
	embryogenesis, plays essential and redundant functions with CEBPB (PubMed:15509779).	
	Essential for the transition from common myeloid progenitors (CMP) to granulocyte/monocyte	
	progenitors (GMP) (PubMed:24367003). Critical for the proper development of the liver and the	
	lung (PubMed:8798745). Necessary for terminal adipocyte differentiation, is required for	
	postnatal maintenance of systemic energy homeostasis and lipid storage (PubMed:1935900,	
	PubMed:8090719). To regulate these different processes at the proper moment and tissue,	
	interplays with other transcription factors and modulators. Down-regulates the expression of	
	genes that maintain cells in an undifferentiated and proliferative state through E2F1 repression	
	which is critical for its ability to induce adipocyte and granulocyte terminal differentiation.	

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	Reciprocally E2F1 blocks adipocyte differentiation by binding to specific promoters and
	repressing CEBPA binding to its target gene promoters (PubMed:11672531). Proliferation arres
	also depends on a functional binding to SWI/SNF complex (PubMed:14660596). In liver,
	regulates gluconeogenesis and lipogenesis through different mechanisms. To regulate
	gluconeogenesis, functionally cooperates with FOXO1 binding to IRE-controlled promoters and
	regulating the expression of target genes such as PCK1 or G6PC1 (PubMed:17627282). To
	modulate lipogenesis, interacts and transcriptionally synergizes with SREBF1 in promoter
	activation of specific lipogenic target genes such as ACAS2 (PubMed:17290224). In adipose
	tissue, seems to act as FOXO1 coactivator accessing to ADIPOQ promoter through FOXO1
	binding sites (PubMed:17090532). {ECO:0000250 UniProtKB:P05554,
	EC0:0000250 UniProtKB:P49715, EC0:0000269 PubMed:11672531,
	EC0:0000269 PubMed:14660596, EC0:0000269 PubMed:15107404,
	ECO:0000269 PubMed:15509779, ECO:0000269 PubMed:15589173,
	EC0:0000269 PubMed:17090532, EC0:0000269 PubMed:17290224,
	EC0:0000269 PubMed:17627282, EC0:0000269 PubMed:1935900,
	EC0:0000269 PubMed:24367003, EC0:0000269 PubMed:36228616,
	ECO:0000269 PubMed:8090719, ECO:0000269 PubMed:8415748,
	ECO:0000269 PubMed:8798745}., FUNCTION: [Isoform 3]: Can act as dominant-negative. Binds
	DNA and have transctivation activity, even if much less efficiently than isoform 2. Does not
	inhibit cell proliferation. {ECO:0000250 UniProtKB:P05554, ECO:0000250 UniProtKB:P49715,
	ECO:0000269 PubMed:8415748}., FUNCTION: [Isoform 4]: Directly and specifically enhances
	ribosomal DNA transcription interacting with RNA polymerase I-specific cofactors and inducing
	histone acetylation. {ECO:0000250 UniProtKB:P49715}.
Molecular Weight:	37.4 kDa
UniProt:	P53566
Pathways:	Brown Fat Cell Differentiation, Positive Regulation of fat Cell Differentiation
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies

as well. As the protein has not been tested for functional studies yet we cannot offer a
guarantee though.

Restrictions:

For Research Use only

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## Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months