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# Datasheet for ABIN3133548 CEBPB Protein (AA 1-296) (His tag)

Image



#### Overview

Quantity:	1 mg
Target:	CEBPB
Protein Characteristics:	AA 1-296
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CEBPB protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

### Product Details

Sequence:	MHRLLAWDAA CLPPPPAAFR PMEVANFYYE PDCLAYGAKA ARAAPRAPAA EPAIGEHERA
	IDFSPYLEPL APAADFAAPA PAHHDFLSDL FADDYGAKPS KKPADYGYVS LGRAGAKAAP
	PACFPPPPPA ALKAEPGFEP ADCKRADDAP AMAAGFPFAL RAYLGYQATP SGSSGSLSTS
	SSSSPPGTPS PADAKAAPAA CFAGPPAAPA KAKAKKTVDK LSDEYKMRRE RNNIAVRKSR
	DKAKMRNLET QHKVLELTAE NERLQKKVEQ LSRELSTLRN LFKQLPEPLL ASAGHC
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>special request, please contact us.</li> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> </ul>
Characteristics:	
Characteristics:	Made in Germany - from design to production - by highly experienced protein experts.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Cebpb Protein (raised in Insect Cells) purified by multi-step, protein-specific process</li> </ul>

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Crystallography grade
Protein is endotoxin free.
0.22 µm filtered
>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
<ul> <li>Two step purification of proteins expressed in baculovirus infected SF9 insect cells:</li> <li>1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.</li> <li>2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li> </ul>
the Expasy's protparam tool to determine the absorption coefficient of each protein.
specific reference buffer. The concentration of the protein is calculated using its specific absorption coefficient. We use
The protein's absorbance will be measured in several dilutions and is measured against its
The concentration of our recombinant proteins is measured using the absorbance at 280nm.
protein experts will do everything to make sure that you receive the protein you ordered.
folded protein. With no financial risk on your end you can rest assured that our experienced
When you order this made-to-order protein you will only pay upon receival of the correctly
experiments or purification optimization).
custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
(other companies might charge you for any performed steps in the expression process for
In the unlikely event that the protein cannot be expressed or purified we do not charge anything
cannot be expressed or purified.
made proteins from other companies is that there is no financial obligation in case the protein
The big advantage of ordering our made-to-order proteins in comparison to ordering custom

## Target Details

Target:	CEBPB
Alternative Name:	Cebpb (CEBPB Products)
Background:	Important transcription factor regulating the expression of genes involved in immune and
	inflammatory responses (PubMed:16585579, PubMed:17911624, PubMed:18486321,

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN3133548 | 09/11/2023 | Copyright antibodies-online. All rights reserved. PubMed:20111005). Plays also a significant role in adipogenesis, as well as in the gluconeogenic pathway, liver regeneration, and hematopoiesis (PubMed:9727068, PubMed:10635333, PubMed:17301242, PubMed:17601773, PubMed:19478079, PubMed:24061474, PubMed:24216764). The consensus recognition site is 5'-T[TG]NNGNAA[TG]-3'. Its functional capacity is governed by protein interactions and posttranslational protein modifications. During early embryogenesis, plays essential and redundant functions with CEBPA (PubMed:15509779). Has a promitotic effect on many cell types such as hepatocytes and adipocytes but has an antiproliferative effect on T-cells by repressing MYC expression, facilitating differentiation along the T-helper 2 lineage (PubMed:9727068, PubMed:10635333, PubMed:16585579). Binds to regulatory regions of several acute-phase and cytokines genes and plays a role in the regulation of acute-phase reaction and inflammation. Plays also a role in intracellular bacteria killing (PubMed:17911624). During adipogenesis, is rapidly expressed and, after activation by phosphorylation, induces CEBPA and PPARG, which turn on the series of adipocyte genes that give rise to the adipocyte phenotype. The delayed transactivation of the CEBPA and PPARG genes by CEBPB appears necessary to allow mitotic clonal expansion and thereby progression of terminal differentiation (PubMed:15985551, PubMed:17301242, PubMed:17601773, PubMed:20194620). Essential for female reproduction because of a critical role in ovarian follicle development (PubMed:9303532). Restricts osteoclastogenesis (PubMed:19440205). {ECO:0000250|UniProtKB:P17676, ECO:0000269|PubMed:10635333, ECO:0000269|PubMed:1314426, ECO:0000269|PubMed:15509779, ECO:0000269|PubMed:15985551, ECO:0000269|PubMed:16585579, ECO:0000269|PubMed:17301242, ECO:0000269|PubMed:17601773, ECO:0000269|PubMed:17911624, EC0:0000269|PubMed:18486321, EC0:0000269|PubMed:19440205, ECO:0000269|PubMed:19478079, ECO:0000269|PubMed:20111005, EC0:0000269|PubMed:20194620, EC0:0000269|PubMed:24061474, ECO:0000269|PubMed:24216764, ECO:0000269|PubMed:9303532, ECO:0000269|PubMed:9727068, ECO:0000303|PubMed:25451943}., Isoform 2: Essential for gene expression induction in activated macrophages. Plays a major role in immune responses such as CD4(+) T-cell response, granuloma formation and endotoxin shock. Not essential for intracellular bacteria killing. {ECO:0000269|PubMed:17911624}., Isoform 3: Acts as a dominant negative through heterodimerization with isoform 2 (By similarity). Promotes osteoblast differentiation and osteoclastogenesis (PubMed:19440205). {ECO:0000250|UniProtKB:P17676, ECO:0000250|UniProtKB:P21272, ECO:0000269|PubMed:19440205}.

Molecular Weight:

32.4 kDa Including tag.

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Target Details	
UniProt:	P28033
Pathways:	Interferon-gamma Pathway, Autophagy, Brown 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 gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C

Expiry Date: Unlimited (if stored properly)

Store at -80°C.

### Images

Storage Comment:



Image 1. "Crystallography Grade" protein due to multi-step,

protein-specific purification process

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