

Datasheet for ABIN7563930
CREB3 Protein (AA 1-404) (His tag)



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Overview

Quantity:	1 mg
Target:	CREB3
Protein Characteristics:	AA 1-404
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CREB3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Creb3 Protein expressed in mammalian cells.
Sequence:	<p>MDPGGQDLLA LDPGDQDLLG FLLEESGDLW AATEPDVKAS LDLELSPSEN SVQELSDWEV</p> <p>EDLLSSLLSP SVSRDVLGSS SSSILHDHNY SLPQEHVSID LGECEMISCR GRRELTGLAG</p> <p>STFPFADTES FEKEGFHVTP LPGEERAAEQ EMSRLILTEE EKKLLEKEGL TLPSTLPLTK</p> <p>VEEQVLKRVR RKIRNKRAAQ ESRKKKKVYV VGLSRVLKY TAQNRELQNK VQRLEEQNLS</p> <p>LLDQLRKLQA MVIEIANKTS SGSTCVLVLV FSFCLLLVPA MYSSDARGSV PAEYVVLHRK</p> <p>LRALPSEDDH QPKPSALSSE LPMDSTHQSL DSSEHMFLVS SNFSCVLYHA PQAEQPLHWP</p> <p>LWDLSSSEMLF SDSNLLLQAN LSESEGWQPN HSPSLVIFQG RYSG 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.</p>
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

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
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Grade:	custom-made
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Target Details

Target:	CREB3
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Alternative Name:	Creb3 (CREB3 Products)
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Background:	<p>Cyclic AMP-responsive element-binding protein 3 (CREB-3) (cAMP-responsive element-binding protein 3) (Transcription factor LZIP) [Cleaved into: Processed cyclic AMP-responsive element-binding protein 3],FUNCTION: Endoplasmic reticulum (ER)-bound sequence-specific transcription factor that directly binds DNA and activates transcription. Plays a role in the unfolded protein response (UPR), promoting cell survival versus ER stress-induced apoptotic cell death. Also involved in cell proliferation, migration and differentiation, tumor suppression and inflammatory gene expression. Acts as a positive regulator of LKN-1/CCL15-induced chemotaxis signaling of leukocyte cell migration. Associates with chromatin to the HERPUD1 promoter. Also induces transcriptional activation of chemokine receptors. Functions as a negative transcriptional regulator in ligand-induced transcriptional activation of the glucocorticoid receptor NR3C1 by recruiting and activating histone deacetylases (HDAC1, HDAC2 and HDAC6). Also decreases the acetylation level of histone H4. Does not promote the chemotactic activity of leukocyte cells. {ECO:0000250 UniProtKB:O43889}., FUNCTION: [Processed cyclic AMP-responsive element-binding protein 3]: This is the transcriptionally active</p>
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Target Details

form that translocates to the nucleus and activates unfolded protein response (UPR) target genes during endoplasmic reticulum (ER) stress response. Binds the cAMP response element (CRE) (consensus: 5'-GTGACGT[AG][AG]-3') and C/EBP sequences present in many promoters to activate transcription of the genes. Binds to the unfolded protein response element (UPRE) consensus sequences sites. Binds DNA to the 5'-CCAC[GA]-3'half of ERSE II (5'-ATTGG-N-CCACG-3'). {ECO:0000250|UniProtKB:O43889}.

Molecular Weight:	45.1 kDa
UniProt:	Q61817
Pathways:	Thyroid Hormone Synthesis , Myometrial Relaxation and Contraction , ER-Nucleus Signaling , Maintenance of Protein Location , Unfolded Protein Response

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

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