Datasheet for ABIN7552637

BHLHE41 Protein (AA 1-482) (His tag)

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Overview

Quantity:	1 mg
Target:	BHLHE41
Protein Characteristics:	AA 1-482
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BHLHE41 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat BHLHE41 Protein expressed in mammalien cells.
Sequence:	MDEGIPHLQE RQLLEHRDFI GLDYSSLYMC KPKRSMKRDD TKDTYKLPHR LIEKKRRDRI NECIAQLKDL LPEHLKLTTL GHLEKAVVLE LTLKHLKALT ALTEQQHQKI IALQNGERSL KSPIQSDLDA FHSGFQTCAK EVLQYLSRFE SWTPREPRCV QLINHLHAVA TQFLPTPQLL TQQVPLSKGT GAPSAAGSAA APCLERAGQK LEPLAYCVPV IQRTQPSAEL AAENDTDTDS GYGGEAEARP DREKGKGAGA SRVTIKQEPP GEDSPAPKRM KLDSRGGGSG GGPGGGAAAA AAALLGPDPA AAAALLRPDA ALLSSLVAFG GGGGAPFPQP AAAAAPFCLP FCFLSPSAAA AYVQPFLDKS GLEKYLYPAA AAAPFPLLYP GIPAPAAAAA AAAAAAAAAA AFPCLSSVLS PPPEKAGAAA ATLLPHEVAP LGAPHPQHPH GRTHLPFAGP REPGNPESSA QEDPSQPGKE AP **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.**

Product Details

Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien 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
Grade:	custom-made

Target Details

Target:	BHLHE41
Alternative Name:	BHLHE41 (BHLHE41 Products)
Background:	Class E basic helix-loop-helix protein 41 (bHLHe41) (Class B basic helix-loop-helix protein 3) (bHLHb3) (Differentially expressed in chondrocytes protein 2) (hDEC2) (Enhancer-of-split and hairy-related protein 1) (SHARP-1),FUNCTION: Transcriptional repressor involved in the regulation of the circadian rhythm by negatively regulating the activity of the clock genes and clock-controlled genes (PubMed:11278948, PubMed:14672706, PubMed:15193144, PubMed:15560782, PubMed:18411297, PubMed:19786558, PubMed:25083013). Acts as the negative limb of a novel autoregulatory feedback loop (DEC loop) which differs from the one formed by the PER and CRY transcriptional repressors (PER/CRY loop). Both these loops are interlocked as it represses the expression of PER1 and in turn is repressed by PER1/2 and CRY1/2. Represses the activity of the circadian transcriptional activator: CLOCK-BMAL1 heterodimer by competing for the binding to E-box elements (5'-CACGTG-3') found within the promoters of its target genes (PubMed:25083013). Negatively regulates its own expression and the expression of DBP and BHLHE41/DEC2. Acts as a corepressor of RXR and the RXR-LXR

Target Details

	heterodimers and represses the ligand-induced RXRA/B/G, NR1H3/LXRA, NR1H4 and VDR transactivation activity. Inhibits HNF1A-mediated transactivation of CYP1A2, CYP2E1 AND CYP3A11 (By similarity). {ECO:0000250|UniProtKB:Q99PV5, ECO:0000269|PubMed:11278948, ECO:0000269|PubMed:14672706, ECO:0000269|PubMed:15193144, ECO:0000269|PubMed:15560782, ECO:0000269|PubMed:18411297, ECO:0000269|PubMed:19786558, ECO:0000269|PubMed:25083013}.
Molecular Weight:	50.5 kDa
UniProt:	Q9C0J9
Pathways:	Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development

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