Datasheet for ABIN7553735

E2F1 Protein (AA 1-437) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	E2F1
Protein Characteristics:	AA 1-437
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This E2F1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat E2F1 Protein expressed in mammalien cells.
Sequence:	MALAGAPAGG PCAPALEALL GAGALRLLDS SQIVIISAAQ DASAPPAPTG PAAPAAGPCD PDLLLFATPQ APRPTPSAPR PALGRPPVKR RLDLETDHQY LAESSGPARG RGRHPGKGVK SPGEKSRYET SLNLTTKRFL ELLSHSADGV VDLNWAAEVL KVQKRRIYDI TNVLEGIQLI AKKSKNHIQW LGSHTTVGVG GRLEGLTQDL RQLQESEQQL DHLMNICTTQ LRLLSEDTDS QRLAYVTCQD LRSIADPAEQ MVMVIKAPPE TQLQAVDSSE NFQISLKSKQ GPIDVFLCPE ETVGGISPGK TPSQEVTSEE ENRATDSATI VSPPPSSPPS SLTTDPSQSL LSLEQEPLLS RMGSLRAPVD EDRLSPLVAA DSLLEHVRED FSGLLPEEFI SLSPPHEALD YHFGLEEGEG IRDLFDCDFG DLTPLDF **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:

Product Details

- 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:	E2F1
Alternative Name:	E2F1 (E2F1 Products)
Background:	Transcription factor E2F1 (E2F-1) (PBR3) (Retinoblastoma-associated protein 1) (RBAP-1) (Retinoblastoma-binding protein 3) (RBBP-3) (pRB-binding protein E2F-1),FUNCTION: Transcription activator that binds DNA cooperatively with DP proteins through the E2 recognition site, 5'-TTTC[CG]CGC-3' found in the promoter region of a number of genes whose products are involved in cell cycle regulation or in DNA replication (PubMed:10675335, PubMed:12717439, PubMed:17704056, PubMed:17050006, PubMed:18625225, PubMed:28992046). The DRTF1/E2F complex functions in the control of cell-cycle progression from G1 to S phase (PubMed:10675335, PubMed:12717439, PubMed:17704056). E2F1 binds preferentially RB1 in a cell-cycle dependent manner (PubMed:10675335, PubMed:12717439, PubMed:17704056). It can mediate both cell proliferation and TP53/p53-dependent apoptosis (PubMed:8170954). Blocks adipocyte differentiation by binding to specific promoters repressing CEBPA binding to its target gene promoters (PubMed:20176812). Directly activates transcription of PEG10 (PubMed:17050006, PubMed:18625225, PubMed:28992046). Positively regulates transcription of RRP1B (PubMed:20040599). {ECO:0000269|PubMed:10675335,

Target Details

	ECO:0000269|PubMed:12717439, ECO:0000269|PubMed:17050006, ECO:0000269|PubMed:17704056, ECO:0000269|PubMed:18625225, ECO:0000269|PubMed:20040599, ECO:0000269|PubMed:20176812, ECO:0000269|PubMed:28992046, ECO:0000269|PubMed:8170954}.
Molecular Weight:	46.9 kDa
UniProt:	Q01094
Pathways:	p53 Signaling, Cell Division Cycle, Mitotic G1-G1/S Phases, DNA Replication, M Phase, Autophagy

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

