

Datasheet for ABIN7558341
ANKZF1 Protein (AA 1-748) (His tag)



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Overview

Quantity:	1 mg
Target:	ANKZF1
Protein Characteristics:	AA 1-748
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ANKZF1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Ankzf1 Protein expressed in mammalien cells.
Sequence:	MAKPAGDAAV GSRSGELFLP SVSSSATSPA PSAAPAPASV SLLSLNGEAP LIRGLSLVSQ APGEALAWAP RTSCPGENTS SGGKVSPYSL EISEKLFCSA CDQIFQNHQE QREHYKLDWH RFNLKQRLKN KPLLSASDFE QQSSTGDLSS ISGSDDTDSS SEEDLLPLDE GRAESEKPNR PPGFYPHRVL FKNAQGQFLY AYRCVLGPHQ IPPEKAELL QNLQNGGPRY YVVLMAAAGH FAGAIFQGRE VVAHKTFHRY TVRAKRGTAQ GLQDAHGRAS RSAGANLRRY NEAMLYKDVR NLLAGPIWSK ALGEAETVLF RAPRSGRSLF FGGQGAPLQR DDPRLWDIPL TTRRPTFGEL QRVLHKLTTL QVYDEDPREM VRFHSPETHW KPVREERKKD TEKEKTKVPS DANKPLGQDE EPLKQGSSEQ EEDGSEVELE LVELTLGTLD LREFEVLPKR RRRRKKKERS QEQQCGAHGP LPQQPQDEPF SQPTQEVETP LDTLVYEAKA PGQPELWDTL LAACRAGEVE VLKLQLATGL VDPGVKSLN APLGSGGFTL LHAAAAAGRG LVVRLLEAG ADPTVQDSRA RPPYTVAADK STRNEFRRFM EKNLDAYDYN KARVPGPLTQ EMEARQATRK KEQKAARRQR EQQQRKQREQ

Product Details

EEQEQQEQR FAALSDREKR ALAAERRLAA QLGAPSPVP DSAVASAGRC WSCGVSLQGL
IPFHYLDFSF CSTRCLRDHR SQAGRPSS **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:

- 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

Grade:

custom-made

Target Details

Target:

ANKZF1

Alternative Name:

Ankzf1 ([ANKZF1 Products](#))

Background:

TRNA endonuclease ANKZF1 (EC 3.1.-.-) (Ankyrin repeat and zinc finger domain-containing protein 1),FUNCTION: Endonuclease that cleaves polypeptidyl-tRNAs downstream of the ribosome-associated quality control (RQC) pathway to release incompletely synthesized polypeptides for degradation. The RQC pathway disassembles aberrantly stalled translation complexes to recycle or degrade the constituent parts. ANKZF1 acts downstream disassembly of stalled ribosomes and specifically cleaves off the terminal 3'-CCA nucleotides universal to all tRNAs from polypeptidyl-tRNAs, releasing (1) ubiquitinated polypeptides from 60S ribosomal subunit for degradation and (2) cleaved tRNAs. ANKZF1-cleaved tRNAs are then repaired and

Target Details

recycled by ELAC1 and TRNT1. Also plays a role in the cellular response to hydrogen peroxide and in the maintenance of mitochondrial integrity under conditions of cellular stress. {ECO:0000250|UniProtKB:Q9H8Y5}.

Molecular Weight: 83.0 kDa

UniProt: [Q80UU1](#)

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