

Datasheet for ABIN3093305

ANKRD15 Protein (AA 1-1352) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	ANKRD15
Protein Characteristics:	AA 1-1352
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ANKRD15 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AlIcE®
Sequence:	MAHTTKVNGS ASGKAGDILS GDQDKEQKDP YFVETPYGYQ LDLDFLKYVD DIQKGNTIKR LNIQKRRKPS VPCPEPRTTS GQQGIWTSTE SLSSSNSDDN KQCPNFLIAR SQVTSTPISK PPPLETSLP FLTIPENRQL PPPSPQLPKH NLHVTCTLME TRRRLEQERA TMQMTPGEFR RPRLASFGGM GTTSSLPSFV GSGNHNPAAK QLQNGYQGNG DYGSYAPAAP TTSSMGSSIR HSPLSSGIST PVTNVSPMHL QHIREQMAIA LKRLKELEE QVRTIPVLQVK ISVLQEEKRQ LVSQLKNQRA ASQINVCVGR KRSYSAGNAS QLEQLSRARR SGGELYIDYE EEEMETVEQS TQRIKEFRQL TADMQALEQK IQDSSCEASS ELRENGECRS VAVGAEENMN DIVVYHRGSR SCKDAAVGTL VEMRNCGVSV TEAMLGVMTE ADKEIELQQQ TIESLKEKIY RLEVQLRETT HDREMTKLKQ ELQAAGSRKK VDKATMAQPL VFSKVVEAVV QTRDQMVGSH MDLVDTCVGT SVETNSVGIS CQPECKNKVV GPPELPMNWWI VKERVEMHDR CAGRSVEMCD KSVSVEVSVC ETGSNTEESV NDLTLLKTNL NLKEVRSIGC GDCSVDVTVC SPKECASRGV NTEAVSQVEA

AVMAVPRAD QDTSTDLEQV HQFTNTETAT LIESCTNTCL STLDKQTSTQ TVETRTVAVG
EGRVKDINSS TKTRSIGVGT LLSGHS GFDR PSAVKTKEG VGQININDNY LVGLKMRTIA
CGPPQLTVGL TASRRSVGVG DDPVGESLEN PQQPAPLGMM TGLDHYIERI QKLLAEQRTL
LAENYSELAE AFGEPHSQMG SLNSQLISTL SSINSVMKSA STEELRNPDF QKTSLGKITG
NYLGYTCKCG GLQSGSPLSS QTSQPEQEVG TSEGKPISSL DAFPTQEGTL SPVNLTDQI
AAGLYACTNN ESTLKSIMKK KDG NKDSNGA KKNLQFVGIN GGYETTSSDD SSSDESSSE
SDDECDVIEY PLEEEEEED EDTRGMAEGH HAVNIEGLKS ARVEDEMQVQ ECEPEKVEIR
ERYELSEKML SACNLLKNTI NDPKALTSKD MRFCLNTLQH EWFRVSSQKS AIPAMVGDI
AAFEAISPDV LRYVINLADG NGNTALHYSV SHSNFEIVKL LLDADVCNVD HQNKAGYTP
MLAALAAVEA EKDMRIVEEL FGCGDVNAKA SQAGQTALML AVSHGRIDMV KGLLACGADV
NIQDDEGSTA LMCASEGHV EIVKLLAQP GCNGHLEDND GSTALSIALE AGHKDIAVLL
YAHVNFAKAQ SPGTPRLGRK TSPGPTRGS FD

Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to

Product Details

produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	ANKRD15
Alternative Name:	KANK1 (ANKRD15 Products)
Background:	<p>KN motif and ankyrin repeat domain-containing protein 1 (Ankyrin repeat domain-containing protein 15) (Kidney ankyrin repeat-containing protein),FUNCTION: Involved in the control of cytoskeleton formation by regulating actin polymerization. Inhibits actin fiber formation and cell migration (PubMed:25961457). Inhibits RhoA activity, the function involves phosphorylation through PI3K/Akt signaling and may depend on the competitive interaction with 14-3-3 adapter proteins to sequester them from active complexes (PubMed:25961457). Inhibits the formation of lamellipodia but not of filopodia, the function may depend on the competitive interaction with BAIAP2 to block its association with activated RAC1 (PubMed:25961457). Inhibits fibronectin-mediated cell spreading, the function is partially mediated by BAIAP2. Inhibits neurite outgrowth. Involved in the establishment and persistence of cell polarity during directed cell movement in wound healing. In the nucleus, is involved in beta-catenin-dependent activation of transcription. Potential tumor suppressor for renal cell carcinoma. Regulates Rac signaling pathways (PubMed:25961457). {ECO:0000269 PubMed:16968744, ECO:0000269 PubMed:18458160, ECO:0000269 PubMed:19171758, ECO:0000269 PubMed:22084092, ECO:0000269 PubMed:25961457}.</p>
Molecular Weight:	147.3 kDa
UniProt:	Q14678

Target Details

Pathways: [Regulation of Actin Filament Polymerization](#)

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.

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During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months