

Datasheet for ABIN3093305
ANKRD15 Protein (AA 1-1352) (Strep Tag)



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1 Image

Overview

Quantity:	1 mg
Target:	ANKRD15
Protein Characteristics:	AA 1-1352
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ANKRD15 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	<p>MAHTTKVNGS ASGKAGDILS GDQDKEQKDP YFVETPYGYQ LDLDFLKYVD DIQKGNTIKR LNIQRRRKPS VPCPEPRTTS GQQGIWTSTE SLSSNSDDN KQCPNFIAR SQVTSTPISK PPPPLETSLP FLTIPENRQL PPPSPQLPKH NLHVTKTLME TRRRLEQERA TMQMTPGGEFR RPRLASFGGM GTTSSLPSFV GSGNHNPAKH QLQNGYQGNG DYGSYAPAAP TTSSMGSSIR HSPLSSGIST PVTNVSPMHL QHIREQMAIA LKRLKELEEQ VRTIPVLQVK ISVLQEEKRQ LVSQKLNQRA ASQINVCQVGR KRSYSAGNAS QLEQLSRARR SGGELYIDYE EEEMETVEQS TQRIKEFRQL TADMQALEQK IQDSSCEASS ELRENGECRS VAVGAEENMN DIVVYHRGSR SCKDAAVGTL VEMRNCQVSV TEAMLGVMTE ADKEIELQQQ TIESLKEKIY RLEVQLRETT HDREMTKLKQ ELQAAGSRKK VDKATMAQPL VFSKVVEAVV QTRDQMVGSH MDLVDTCVGT SVETNSVGIS CQPECKNKVV GPPELPMNWWI VKERVEMHDR CAGRSVEMCD KSVSVEVSVC ETGSNTEESV NDLTLLKTNL NLKEVRSIGC GDSCVDVTV C SPKECASRGV NTEAVSQVEA AVMAVPRAD QDTSTDLEQV HQFTNTETAT LIESCTNTCL STLDKQTSTQ TVETRTVAVG</p>
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EGRVKDINSS TKTRSIGVGT LLSGHSGFDR PSAVKTKESG VGQININDNY LVGLKMRTIA
CGPPQLTVGL TASRRSVGVG DDPVGESLEN PQQAPLGMM 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 AIPAMVGDYI
AAFEAISPDV LRYVINLADG NGNTALHYSV SHSNFEIVKL LLDADVCNVD HQNKAGYTPI
MLAALAAVEA EKDMRIVEEL FGCGDVNAKA SQAGQTALML AVSHGRIDMV KGLLAGADY
NIQDDEGSTA LMCASEHGHV EIVKLLLAQP 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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	ANKRD15
Alternative Name:	KANK1 (ANKRD15 Products)
Background:	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

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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}.

Molecular Weight: 147.3 kDa

UniProt: [Q14678](#)

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.

Comment: 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 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. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Handling

Expiry Date: Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process