

Datasheet for ABIN3132285

## AKAP3 Protein (AA 1-864) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	AKAP3
Protein Characteristics:	AA 1-864
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AKAP3 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

### Product Details

Brand:	AliCE®
Sequence:	<p>MADRVDWLQS QSGVCKVGVY SPGDNQHQDW KMDTSTDPVR VLSWLRKDLE KSTAGFQDSR</p> <p>FKPGESSFVE EVAYPVDQRK GFCVDYYNTT NKGSPGRLHF EMSHKENPSQ GLISHVGNNG</p> <p>SIDEVSFYAN RLTNLVIAMA RKEINEKIHG AENKCVHQL YMGDEPTPHK SLSTVASELV</p> <p>NETVTACSKN ISSDKAPGSG DRASGSSQAP GLRYTSTLKI KESTKEGKCP DDKPGTKKSF</p> <p>FYKEVFESRN AGDAKEGGRS LPGDQKLFRT SPDNRPDDFS NSISQGIMTY ANSVVSDMMV</p> <p>SIMKTLKIQV KDTTIATILL KKVLMKHAKE VVSDLIDFSM KNLHGVTGSL MTDTDVFSVA</p> <p>KRSFFSHGSQ KATDIMDAML GKLYNVMFAK KFPENIRRAR DKSESYSLIS TKSRAGDPKL</p> <p>SNLNFAMKSE SKLKENLFST CKLEKEKTCA ETLGEHIIKE GLHMWHKSQQ KSPGLERAAK</p> <p>LGNAPQEVSF ECPDPCEANP PHQPQPPENF ANFMCDSDSW AKDLIVSALL LIQYHLAQGG</p> <p>KMDAQSFLEA AASTNFPTNK PPPPSPVVQD ECKLKSPPHK ICDQEQTCK DLMSVIFNFI</p> <p>RNLLSETIFK SSRNCESNVH EQNTQEEIIH PCERP KTPCE RPITPPAPKF CEDEEATGGA</p>

LSGLTKMVAN QLDNCMNGQM VEHLMD SVMK LCLIIAKSCD SPLSELGEEK CGDASRPNSA  
FPDNLYECLP VKGTGTAEAL LQNAYLTIHN ELRGLSGQPP EGCEIPKVIV SNHNLADTVQ  
NKQLQAVLQW VAASELNVPI LYFAGDDEGI QEKLLQLSAT AVEKGRSVGE VLQSVLRYEK  
ERQLDEAVGN VTRLQLLDWL MANL

**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.**

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### 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 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.

## Product Details

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

Target:	AKAP3
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Alternative Name:	Akap3 ( <a href="#">AKAP3 Products</a> )
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Background:	A-kinase anchor protein 3 (AKAP-3) (A-kinase anchor protein 110 kDa) (AKAP 110) (Protein kinase A-anchoring protein 3) (PRKA3),FUNCTION: Has a role in the maintenance of acrosome structure. May function as a regulator of both spermatozoa motility and head-associated functions such as capacitation and the acrosome reaction. {ECO:0000250 UniProtKB:O75969}.
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Molecular Weight:	95.6 kDa
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UniProt:	<a href="#">O88987</a>
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## 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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Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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Restrictions:	For Research Use only
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## Handling

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Format: Liquid

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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.**

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months