

Datasheet for ABIN3137181

## PIK3AP1 Protein (AA 1-811) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	PIK3AP1
Protein Characteristics:	AA 1-811
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PIK3AP1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

### Product Details

Brand:	AliCE®
Sequence:	MAASGWGRGC DILIFYSPDA EEWCQYLQDL FVSCRQVRSQ KTQTYRLVPD ASFSAQDLWV FRDARCVLVL LSAGLVGCFG QPGLLPMLQR ACHPPQRVVR LLCGVQPGDE DFQAFFPDWA HWQEMTCDDE PETYLA AVRK AISED SGCD S VTDTEPDER ELPSKQTNL PPEISPGNLM VVQPDRIRCG AETTVYIIVR CKLDEKVSTE AEFSPEDSPS IRVEGTLENE YTVSVKAPDL SSGNVSLKVY SGDLVVCETT VSYTDMEEI GNLLSSAANP VEFMCQAFKI VPYNTETLDK LLTESLKNNI PASGLHLFGI NQLEEDDMMT NQRDEELPTL LHFAAKYGLK NLTALLTCTP GALQAYSVAN KHGHYPNTIA EKHGFRDLRQ FIDEYVETVD MLKTHIKEEL MQGEEADDVY ESMAHLSTD L LMKCSLNPGC DDELYESMAA FAPAATEDLY VEM LQASAGN PVSGESFSRP TKDSMIRKFL EGN SVKPASW EREQHHPYGE ELYHIVDEDE TFSVDLANRP PVPVPRPEAS APGPPPPPDN EPYISKVFAE KSQERLGNFY VSSESIRKEP LVRPWRDRPP SSIYDPFAGM KTPGQRQLIT LQEQVKLGIV NVDEAVLHFK EWQLNQKKRS ESFRFQQENL KRLRESITRR

RKEKPKSGKH TDLEITVPIR HSQHLPEKVE FGVYESGPRK SVLPARTEL RGDWKTDSMS  
STASSTSNRS STRSLLSVSS GMEGDNEDNE IPEITRSRGP GPTQVDGAPV VTGTPVGTLE  
RPPRVPPRAA SQRPLTRESF HPPPPVPPRG R

**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.

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### Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression

## Product Details

System (ALiCE®).

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

## Target Details

Target: PIK3AP1

Alternative Name: Pik3ap1 ([PIK3AP1 Products](#))

Background: Phosphoinositide 3-kinase adapter protein 1 (B-cell adapter for phosphoinositide 3-kinase) (B-cell phosphoinositide 3-kinase adapter protein 1),FUNCTION: Signaling adapter that contributes to B-cell development by linking B-cell receptor (BCR) signaling to the phosphoinositide 3-kinase (PI3K)-Akt signaling pathway. Has a complementary role to the BCR coreceptor CD19, coupling BCR and PI3K activation by providing a docking site for the PI3K subunit PIK3R1. Alternatively, links Toll-like receptor (TLR) signaling to PI3K activation, a process preventing excessive inflammatory cytokine production. Also involved in the activation of PI3K in natural killer cells. May be involved in the survival of mature B-cells via activation of REL.  
{ECO:0000269|PubMed:11781242, ECO:0000269|PubMed:11877477, ECO:0000269|PubMed:12833156, ECO:0000269|PubMed:18025150, ECO:0000269|PubMed:18337558, ECO:0000269|PubMed:22187458, ECO:0000269|PubMed:22187460}.

Molecular Weight: 90.9 kDa

UniProt: [Q9EQ32](#)

Pathways: [Activation of Innate immune Response](#), [BCR Signaling](#), [Warburg Effect](#)

## 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.  
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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 <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months