Datasheet for ABIN3089560

ASAP1 Protein (AA 1-1129) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	ASAP1
Protein Characteristics:	AA 1-1129
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ASAP1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MRSSASRLSS FSSRDSLWNR MPDQISVSEF IAETTEDYNS PTTSSFTTRL HNCRNTVTLL EEALDQDRTA LQKVKKSVKA IYNSGQDHVQ NEENYAQVLD KFGSNFLSRD NPDLGTAFVK FSTLTKELST LLKNLLQGLS HNVIFTLDSL LKGDLKGVKG DLKKPFDKAW KDYETKFTKI EKEKREHAKQ HGMIRTEITG AEIAEEMEKE RRLFQLQMCE YLIKVNEIKT KKGVDLLQNL IKYYHAQCNF FQDGLKTADK LKQYIEKLAA DLYNIKQTQD EEKKQLTALR DLIKSSLQLD QKEDSQSRQG GYSMHQLQGN KEYGSEKKGY LLKKSDGIRK VWQRRKCSVK NGILTISHAT SNRQPAKLNL LTCQVKPNAE DKKSFDLISH NRTYHFQAED EQDYVAWISV LTNSKEEALT MAFRGEQSAG ENSLEDLTKA IIEDVQRLPG NDICCDCGSS EPTWLSTNLG ILTCIECSGI HREMGVHISR IQSLELDKLG TSELLLAKNV GNNSFNDIME ANLPSPSPKP TPSSDMTVRK EYITAKYVDH RFSRKTCSTS SAKLNELLEA IKSRDLLALI QVYAEGVELM EPLLEPGQEL GETALHLAVR TADQTSLHLV DFLVQNCGNL DKQTALGNTV LHYCSMYSKP ECLKLLLRSK

PTVDIVNQAG ETALDIAKRL KATQCEDLLS QAKSGKFNPH VHVEYEWNLR QEEIDESDDD LDDKPSPIKK ERSPRPQSFC HSSSISPQDK LALPGFSTPR DKQRLSYGAF TNQIFVSTST DSPTSPTTEA PPLPPRNAGK GPTGPPSTLP LSTQTSSGSS TLSKKRPPPP PPGHKRTLSD PPSPLPHGPP NKGAVPWGND GGPSSSSKTT NKFEGLSQQS STSSAKTALG PRVLPKLPQK VALRKTDHLS LDKATIPPEI FQKSSQLAEL PQKPPPGDLP PKPTELAPKP QIGDLPPKPG ELPPKPQLGD LPPKPQLSDL PPKPQMKDLP PKPQLGDLLA KSQTGDVSPK AQQPSEVTLK SHPLDLSPNV QSRDAIQKQA SEDSNDLTPT LPETPVPLPR KINTGKNKVR RVKTIYDCQA DNDDELTFIE GEVIIVTGEE DQEWWIGHIE GQPERKGVFP VSFVHILSD

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 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:

Product Details

- 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:	ASAP1
Alternative Name:	ASAP1 (ASAP1 Products)
Background:	Arf-GAP with SH3 domain, ANK repeat and PH domain-containing protein 1 (130 kDa phosphatidylinositol 4,5-bisphosphate-dependent ARF1 GTPase-activating protein) (ADP-ribosylation factor-directed GTPase-activating protein 1) (ARF GTPase-activating protein 1) (Development and differentiation-enhancing factor 1) (DEF-1) (Differentiation-enhancing factor 1) (PIP2-dependent ARF1 GAP),FUNCTION: Possesses phosphatidylinositol 4,5-bisphosphate-dependent GTPase-activating protein activity for ARF1 (ADP ribosylation factor 1) and ARF5 and a lesser activity towards ARF6. May coordinate membrane trafficking with cell growth or actin cytoskeleton remodeling by binding to both SRC and PIP2. May function as a signal transduction protein involved in the differentiation of fibroblasts into adipocytes and possibly other cell types. Part of the ciliary targeting complex containing Rab11, ASAP1, Rabin8/RAB3IP, RAB11FIP3 and ARF4, which direct preciliary vesicle trafficking to mother centriole and ciliogenesis initiation (PubMed:25673879). {ECO:0000250, ECO:0000269|PubMed:20393563, ECO:0000269|PubMed:25673879}.
Molecular Weight:	125.5 kDa
UniProt:	Q9ULH1

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.

Application Details

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. 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