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Datasheet for ABIN3137365
ASAP1 Protein (AA 1-1147) (Strep Tag)

Overview

Quantity:	1 mg
Target:	ASAP1
Protein Characteristics:	AA 1-1147
Origin:	Mouse
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ASAP1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MRSSASRLSS FSSRD_{SL}WNR MPDQISVSEF IAETTEDYNS PTTSSFTTRL HNCRN_{TV}TLL
EEALDQDR_{TA} LQKV_{KK}SVKA IYNSGQDHVQ NEENYAQVLD KFGSNFLSRD NPD_{LG}TAFVK
FSTLT_{KE}LST LLKNLLQGLS HNVIFTLDSL LKGD_{LK}GVKG DLK_{KP}FDKAW KDYETK_{FT}KI
EKEKREHAKQ HGMIRTEITG AEIAEEMEKE RRL_{FQ}LQMCE YLIK_{VNE}IKT KKG_{VD}LLQNL
IKYYHAQCNF FQDGLKTADK LKQYIEKLAA DLYNIKQTQD EEK_{KQ}L_{TAL}R DLIK_{SS}LQLD
PKEVGGLYVA SRANSSRRDS QSRQGGYSMH QLQGNKEYGS EKK_GFLLKKS DGIRK_{VW}QRR
KCAV_{KN}GILT ISHATSNRQP AKL_{NLL}TCQV KPNAEDK_{KSF} DLISH_{NRT}YH FQAEDEQ_{DI}
AWIS_{VL}TNSK EEAL_{TMA}FRG EQSTGENSLE DLT_{KAI}IEDV QRL_{PG}NDICC DCG_{SSE}PTWL
STNL_{GIL}TCI EC_{SGI}HREMG VHIS_{RI}Q_{SLE} LDK_{LGT}SELL LAK_{NV}G_{NNS}F NDIMEAN_{LPS}
PSP_{KPT}SSD M_{TVR}KEYITA KYVD_{HRF}SRK TCASS_{SA}KLN ELLE_{AIK}SRD LLALI_{QV}YAE
GV_{EL}MEPLLE PG_{QEL}GETAL HLA_{VRT}ADQT SLHL_{VD}FLVQ NCG_{NLD}KQTS VG_{NTV}LH_{YCS}
MYG_{KPE}CLKL LL_{RSK}P_{TV}DI VN_{QNG}ETALD IAK_{RLK}ATQC ED_{LLS}QAKSG KFN_{PHV}HVEY

EWNLRQDEMD ESDDDLDDKP SPIKKERSPR PQSFCHSSSI SPQDKLALPG FSTPRDKQRL
SYGAFTNQIF ASTSTDLPTS PTSEAPPLPP RNAGKGPTGP PSTLPLGTQT SSGSSTLSKK
RPPPPPPGHK RTLSDPPSPL PHGPPNKGAI PWGNDVGPLS SSKTANKFEG LSQQASTSSA
KTALGPRVLP KLPQKVALRK TETSHHLSLD RTNIPPETFQ KSSQLTELPQ KPPLGELPPK
PVELAPKPQV GELPPKPGEL PPKPQLGDLP PKPQLSDLPP KPQMKDLPPK PQLGDLLAKS
QAGDVSAKVQ PPSEVTQRSH TGDLSPNVQS RDAIQKQASE DSNDLTPTLP ETPVPLPRKI
NTGKNKVRV KTIYDCQADN DDELTFIEGE VIIVTGEEDQ EWWIGHIEGQ PERKGVFPVS FVHILSD

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 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!

Product Details

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®):

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)

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: May function as a signal transduction protein involved in the differentiation of fibroblasts into adipocytes and possibly other cell types. Posseses 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. 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 (By similarity). {ECO:0000250, ECO:0000250|UniProtKB:Q9ULH1}.

Molecular Weight:

127.4 kDa

UniProt:

[Q9QWY8](#)

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. 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.

Expiry Date: Unlimited (if stored properly)
