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Datasheet for ABIN3089284

ASAP2 Protein (AA 1-1006) (Strep Tag)

Overview

Quantity:	1 mg
Target:	ASAP2
Protein Characteristics:	AA 1-1006
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ASAP2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MPDQISVSEF VAETHEDYKA PTASSFTTRT AQRNTVAAI EEALDVDRMV LYKMKKSVKA
INSSGLAHVE NEEQYQALE KFGGNCVCRD DPDLGSAFLK FSVFTKELTA LFKNLIQNMN
NIISFPLDSL LKGD LKGVKG DLKKPFDKAW KDYETKITKI EKEKKEHAKL HGMIRTEISG
AEIAEEMEKE RRFQ LQMCE YLLKVNEIKI KKGVDLLQNL IKYFHAQCNF FQDGLKAVES
LKPSIETLST DLHTIKQAQD EERRQLIQLR DILKSALQVE QKEDSQIRQS TAYSLHQPQG
NKEHGTERNG SLYKSDGIR KVVQKRKCSV KNGFLTISHG TANRPPAKLN LLTCQVKTNP
EEKKCFDLIS HDRTYHFQAE DEQECQIWMS VLQNSKEEAL NNAFKGDDNT GENNIVQELT
KEIISEVQRM TGNDVCCDCG APDPTWLSTN LGILTICIECS GIHRELGVHY SRMQSLTLDV
LGTSELLAK NIGNAGFNEI MECCLPAEDS VKPNPGSDMN ARKDYITAKY IERRYARKKH
ADNAAKLHSL CEAVKTRDIF GLLQAYADGV DLTEKIPLAN GHEPDETALH LAVRSVDRTS
LHIVDFLVQN SGNLDKQTGK GSTALHYCCL TDNAECLKLL LRGKASIEIA NESGETPLDI
AKRLKHEHCE ELLTQALSGR FNSHVHVEYE WRLLHEDLDE SDDDMDEKLQ PSPNRREDRP

ISFYQLGSNQ LQSNVSLAR DAANLAKEKQ RAFMPSILQN ETYGALLSGS PPPAQPAAPS
TTSAPPLPPR NVGKVQTASS ANTLWKTNSV SVDGGSRQRS SSDPPAVHPP LPPLRVSTN
PLTPTPPPPV AKTPSVMEAL SQPSKPAPPG ISQIRPPPLP PQPPSRLPQK KPAPGADKST
PLTNKGQPRG PVDLSATEAL GPLSNAMVLQ PPAPMPRKSQ ATKLKPKRVK ALYNVADNP
DELTFSEGDV IVDGEEDQE WWIGHIDGDP GRKGAFPVSF VHFIAD

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!

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

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- 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)

Target Details

Target:	ASAP2
Alternative Name:	ASAP2 (ASAP2 Products)
Background:	Arf-GAP with SH3 domain, ANK repeat and PH domain-containing protein 2 (Development and differentiation-enhancing factor 2) (Paxillin-associated protein with ARF GAP activity 3) (PAG3) (Pyk2 C-terminus-associated protein) (PAP),FUNCTION: Activates the small GTPases ARF1, ARF5 and ARF6. Regulates the formation of post-Golgi vesicles and modulates constitutive secretion. Modulates phagocytosis mediated by Fc gamma receptor and ARF6. Modulates PXN recruitment to focal contacts and cell migration. {ECO:0000269 PubMed:10022920, ECO:0000269 PubMed:10749932, ECO:0000269 PubMed:11304556}.
Molecular Weight:	111.7 kDa
UniProt:	O43150

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 <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce

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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. 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)