Datasheet for ABIN3131865

STK10-A Protein (AA 1-966) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	STK10-A
Protein Characteristics:	AA 1-966
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This STK10-A protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MAFANFRRIL RLSTFEKRKS REYEHVRRDL DPNDVWEIVG ELGDGAFGKV YKAKNKETGA LAAAKVIETK SEEELEDYIV EIEILATCDH PYIVKLLGAY YYDGKLWIMI EFCPGGAVDA IMLELDRGLT EPQIQVVCRQ MLEALNFLHG KRIIHRDLKA GNVLMTLEGD IRLADFGVSA KNLKTLQKRD SFIGTPYWMA PEVVLCETMK DAPYDYKADI WSLGITLIEM AQIEPPHHEL NPMRVLLKIA KSDPPTLLTP SKWSVEFRDF LKIALDKNPE TRPSAAQLLQ HPFVSRVTSN KALRELVAEA KAEVMEEIED GREDGEEEDA VDAVPPLVNH TQDSANVTQP SLDSNKLLQD SSTPLPPSQP QEPVSGSCSQ PSGDGPLQTT SPADGLSKND NDLKVPVPLR KSRPLSMDAR IQMDEEKQIP DQDENPSPAA SKSQKANQSR PNSSALETLG GEALTNGGLE LPSSVTPSHS KRASDCSNLS TSESMDYGTS LSADLSLNKE TGSLSLKGSK LHNKTLKRTR RFVVDGVEVS ITTSKIISED EKKDEEMRFL RRQELRELRL LQKEEHRNQT QLSSKHELQL EQMHKRFEQE INAKKKFYDV ELENLERQQK QQVEKMEQDH SVRRKEEAKR IRLEQDRDYA KFQEQLKQMK

KEVKSEVEKL PRQQRKESMK QKMEEHSQKK QRLDRDFVAK QKEDLELAMR KLTTENRREI CDKERDCLSK KQELLRDREA ALWEMEEHQL QERHQLVKQQ LKDQYFLQRH DLLRKHEKER EQMQRYNQRM MEQLKVRQQQ EKARLPKIQR SDGKTRMAMY KKSLHINGAG SASEQREKIK QFSQQEEKRQ KAERLQQQQK HENQMRDMVA QCESNMSELQ QLQNEKCHLL VEHETQKLKA LDESHNQSLK EWRDKLRPRK KALEEDLNQK KREQEMFFKL SEEAEPRPTT PSKASNFFPY SSGDAS

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:

- 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.

Product Details

- 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:	STK10-A
Alternative Name:	Stk10 (STK10-A Products)
Background:	Serine/threonine-protein kinase 10 (EC 2.7.11.1) (Lymphocyte-oriented kinase),FUNCTION: Serine/threonine-protein kinase involved in regulation of lymphocyte migration. Phosphorylates MSN, and possibly PLK1. Involved in regulation of lymphocyte migration by mediating phosphorylation of ERM proteins such as MSN. Acts as a negative regulator of MAP3K1/MEKK1. May also act as a cell cycle regulator by acting as a polo kinase kinase: mediates phosphorylation of PLK1 in vitro, however such data require additional evidences in vivo. {ECO:0000269|PubMed:19255442}.
Molecular Weight:	111.9 kDa
UniProt:	O55098

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. 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

Application Details

	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