Datasheet for ABIN3137339

AP3B2 Protein (AA 1-1082) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	AP3B2
Protein Characteristics:	AA 1-1082
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AP3B2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MSAAPAYSED KGGSAGPGEP EYGHDPASGG IFSSDYKRHD DLKEMLDTNK DSLKLEAMKR IVAMIARGKN ASDLFPAVVK NVACKNIEVK KLVYVYLVRY AEEQQDLALL SISTFQRGLK DPNQLIRASA LRVLSSIRVP IIVPIMMLAI KEAASDMSPY VRKTAAHAIP KLYSLDSDQK DQLIEVIEKL LADKTTLVAG SVVMAFEEVC PERIDLIHKN YRKLCNLLID VEEWGQVVII SMLTRYARTQ FLSPTQNESL LEENPEKAFY GSEEDEAKGP GSEEAATAAL PARKPYVMDP DHRLLLRNTK PLLQSRSAAV VMAVAQLYFH LAPKAEVGVI AKALVRLLRS HSEVQYVVLQ NVATMSIKRR GMFEPYLKSF YIRSTDPTQI KILKLEVLTN LANETNIPTV LREFQTYIRS MDKDFVAATI QAIGRCATNI GRVRDTCLNG LVQLLSNRDE LVVAESVVVI KKLLQMQPAQ HGEIIKHLAK LTDNIQVPMA RASILWLIGE YCEHVPKIAP DVLRKMAKSF TAEEDIVKLQ VINLAAKLYL TNSKQTKLLT QYVLSLAKYD QNYDIRDRAR FTRQLIVPSE QGGALSRHAK KLFLAPKPAP ILESSFKDRD HFQLGSLSHL LNAKATGYQE LPDWPEEAPD PSVRNVEVPE

WTKCSNREKR KEKEKPFYSD SEGESGPTES ADSEPESESE SESKSSSGSG SGESSSESDN EEEDEEKGGG SESEQSEEED EKKKKTKKKK ASEGHREGSS SEEGSDSSSS SESEVTSESE EEQVEPASWR KKTPPGSKSA PVAKEISLLD LEDFTPPSVQ PVSPPMVVST SLAADLEGLT LTDSSLVPSL LSPVSSIGRQ ELLHRVAGEG LSVDYAFSRQ PFSGDPHMVS LHIYFSNNSE TPIKGLHVGT PKLPAGISIQ EFPEIESLAP GESTTTVMGI NFCDSTQAAN FQLCTQTRQF YVSIQPPVGE LMAPVFMSEN EFKKEQGKLT GMNEITEKLT LPDTCRSDHM VVQKVTATAN LGRVPCGTSD EYRFAGRTLT SGSLVLLTLD ARAAGAAQLT VNSEKMVIGT MLVKDVIQAL TQ

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.

Product Details

	• 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:	AP3B2
Alternative Name:	Ap3b2 (AP3B2 Products)
Background:	AP-3 complex subunit beta-2 (Adaptor protein complex AP-3 subunit beta-2) (Adaptor-related protein complex 3 subunit beta-2) (Beta-3B-adaptin) (Clathrin assembly protein complex 3 beta-2 large chain),FUNCTION: Subunit of non-clathrin- and clathrin-associated adaptor protein complex 3 (AP-3) that plays a role in protein sorting in the late-Golgi/trans-Golgi network (TGN) and/or endosomes. The AP complexes mediate both the recruitment of clathrin to membranes and the recognition of sorting signals within the cytosolic tails of transmembrane cargo molecules. AP-3 appears to be involved in the sorting of a subset of transmembrane proteins targeted to lysosomes and lysosome-related organelles. In concert with the BLOC-1 complex, AP-3 is required to target cargos into vesicles assembled at cell bodies for delivery into neurites and nerve terminals. {ECO:0000269|PubMed:21998198}.
Molecular Weight:	119.2 kDa
UniProt:	Q9JME5

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.

Application Details

	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