

Datasheet for ABIN3088892

AP3B1 Protein (AA 1-1094) (Strep Tag)



[Go to Product page](#)

Overview

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| Quantity: | 250 µg |
| Target: | AP3B1 |
| Protein Characteristics: | AA 1-1094 |
| Origin: | Human |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This AP3B1 protein is labelled with Strep Tag. |
| Application: | ELISA, Western Blotting (WB), SDS-PAGE (SDS) |

Product Details

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| Brand: | AlIcE® |
| Sequence: | <p>MSSNSFPYNE QSGGGEATEL GQEATSTISP SGAFGLFSSD LKKNEDLKQM LESNKDSAKL DAMKRIVGMI AKGKNASELF PAVVKNVASK NIEIKKLVYV YLVRYAEEQQ DLALLSISTF QRALKDPNQL IRASALRVLS SIRVPIIVPI MMLAIKEASA DLSPYVRKNA AHAIQKLYSL DPEQKEMLIE VIEKLLKDKS TLVAGSVVMA FEEVCPDRID LIHKNYRKLC NLLVDVEEWG QVVIHMLTR YARTQFVSPW KEGDELEDNG KNFYESDDDQ KEKTDKKKKP YTMDDPHRLL IRNTKPLLQS RNAAVVMABA QLYWHISPKS EAGIISKSLV RLLRSNREVQ YIVLQNIATM SIQRKGMFEP YLKSFYVRST DPTMIKTLKL EILTNLANE NISTLLREFQ TYVKSQDKQF AAATIQTIGR CATNILEVTD TCLNGLVCLL SNRDEIVVAE SVVVIKLLQ MQPAQHGEII KHMAKLLDSI TVPVARASIL WLIGENCERV PKIAPDVLRK MAKSTSEDD LVKLQILNLG AKLYLTNSKQ TKLLTQYILN LGKYDQNYDI RDRTRFIRQL IVPNVKSGAL SKYAKKIFLA QKPAPLLESP FKDRDHFQLG TLSHTLNIKA TGYLELSNWP EVAPDPSVRN VEVIELAKEW</p> |

TPAGKAKQEN SAKKFYSESE EEEDSSDSSS DSESESGSES GEQGESGEEG DSNEDSSSDS
SSEQDSESGR ESGLENKRTA KRNSKAKGKS DSEEDGEKENE KSKTSDSSND ESSIEDSSS
DSESESEPES ESESRRTKE KEKTKQDRT PLTKDVSLLD LDDFNPVSTP VALPTPALSP
SLMADLEGLH LSTSSSVISV STPAFVPTKT HVLLHRMSGK GLAAHYFFPR QPCIFGDKMV
SIQITLNNTT DRKIENIHIG EKKLPIGMKM HVFNPIDSLE PEGSITVSMG IDFCSTQTA
SFQLCTKDDC FNVNIQPPVG ELLLPVAMSE KDFKKEQGV L TGMNETSAVI IAAPQNFTPS
VIFQKVVNVA NVGAVPSGQD NIHRFAAKTV HSGSLMLVTV ELKEGSTAQL IINTEKTVIG
SVLLRELKPV LSQG

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: AP3B1

Alternative Name: AP3B1 ([AP3B1 Products](#))

Background: AP-3 complex subunit beta-1 (Adaptor protein complex AP-3 subunit beta-1) (Adaptor-related protein complex 3 subunit beta-1) (Beta-3A-adaptin) (Clathrin assembly protein complex 3 beta-1 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:0000305|PubMed:9151686}.

Molecular Weight: 121.3 kDa

UniProt: [O00203](#)

Pathways: [SARS-CoV-2 Protein Interactome](#)

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

Application Details

even the most difficult-to-express proteins, including those that require post-translational modifications.

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Restrictions: For Research Use only

Handling

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| 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 |