Datasheet for ABIN3132502

Band 3/AE1 Protein (AA 1-929) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	Band 3/AE1 (SLC4A1)
Protein Characteristics:	AA 1-929
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Band 3/AE1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MGDMRDHEEV LEIPDRDSEE ELENIIGQIA YRDLTIPVTE MQDPEALPTE QTATDYVPSS TSTPHPSSGQ VYVELQELMM DQRNQELQWV EAAHWIGLEE NLREDGVWGR PHLSYLTFWS LLELQKVFSK GTFLLGLAET SLAGVANHLL DCFIYEDQIR PQDREELLRA LLLKRSHAED LGNLEGVKPA VLTRSGGASE PLLPHQPSLE TQLYCGQAEG GSEGPSTSGT LKIPPDSETT LVLVGRANFL EKPVLGFVRL KEAVPLEDLV LPEPVGFLLV LLGPEAPHVD YTQLGRAAAT LMTERVFRIT ASMAHNREEL LRSLESFLDC SLVLPPTDAP SEKALLNLVP VQKELLRRRY LPSPAKPDPN LYNTLDLNGG KGGPGDEDDP LRRTGRIFGG LIRDIRRRYP YYLSDITDAL SPQVLAAVIF IYFAALSPAV TFGGLLGEKT RNLMGVSELL ISTAVQGILF ALLGAQPLLV LGFSGPLLVF EEAFFSFCES NNLEYIVGRA WIGFWLILLV MLVVAFEGSF LVQYISRYTQ EIFSFLISLI FIYETFSKLI KIFQDYPLQQ TYAPVVMKPK PQGPVPNTAL FSLVLMAGTF LLAMTLRKFK NSTYFPGKLR RVIGDFGVPI SILIMVLVDS FIKGTYTQKL SVPDGLKVSN

SSARGWVIHP LGLYRLFPTW MMFASVLPAL LVFILIFLES QITTLIVSKP ERKMIKGSGF HLDLLLVVGM GGVAALFGMP WLSATTVRSV THANALTVMG KASGPGAAAQ IQEVKEQRIS GLLVSVLVGL SILMEPILSR IPLAVLFGIF LYMGVTSLSG IQLFDRILLL FKPPKYHPDV PFVKRVKTWR MHLFTGIQII CLAVLWVVKS TPASLALPFV LILTVPLRRL ILPLIFRELE LQCLDGDDAK VTFDEENGLD EYDEVPMPV

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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details

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:	Band 3/AE1 (SLC4A1)
Alternative Name:	Slc4a1 (SLC4A1 Products)
Background:	Band 3 anion transport protein (Anion exchange protein 1) (AE 1) (Anion exchanger 1) (MEB3) (Solute carrier family 4 member 1) (CD antigen CD233),FUNCTION: Functions both as a transporter that mediates electroneutral anion exchange across the cell membrane and as a structural protein. Component of the ankyrin-1 complex of the erythrocyte membrane, required for normal flexibility and stability of the erythrocyte membrane and for normal erythrocyte shape via the interactions of its cytoplasmic domain with cytoskeletal proteins, glycolytic enzymes, and hemoglobin. Functions as a transporter that mediates the 1:1 exchange of inorganic anions across the erythrocyte membrane. Mediates chloride-bicarbonate exchange in the kidney, and is required for normal acidification of the urine. {ECO:0000250|UniProtKB:P02730}.
Molecular Weight:	103.1 kDa
UniProt:	P04919

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

Application Details

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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