

Datasheet for ABIN3095528

Sorting Nexin 2 Protein (SNX2) (AA 1-519) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	Sorting Nexin 2 (SNX2)
Protein Characteristics:	AA 1-519
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Sorting Nexin 2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MAAEREPPPL GDGKPTDFED LEDGEDLFTS TVSTLESSPS SPEPASLPAE DISANSNGPK
 PTEVLDDDDR EDLFAEATEE VSLDSPEREP ILSSESPAV TPVTPPTLIA PRIESKMSA
 PVIFDRSREE IEEANGDIF DIEIGVSDPE KVGDMNAYM AYRVTTKTSL SMFSKSEFSV
 KRRFSDFLGL HSKLASKYLH VGYIVPPAPE KSIVGMTKVK VGKEDSSSTE FVEKRRAALE
 RYLQRTVKHP TLLQDPDLRQ FLESSLPRA VNTQALSGAG ILRMVNKAAD AVNKMTIKMN
 ESDAWFEEKQ QQFENLDQQL RKLHVSVEAL VCHRKELSAN TAAFAKSAAM LGNSEDHTAL
 SRALSQLAEV EEKIDQLHQE QAFADFYMF S ELLSDYIRLI AAVKGVFDHR MKCWQKWEDA
 QITLLKKREA EAKMMVANKP DKIQQAKNEI REWEAKVQQG ERDFEQISKI IRKEVGRFEK
 ERVKDFKTVI IKYLESLVQT QQQLIKYWEA FLPEAKAIA

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.

Product Details

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.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Purity:

> 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Target Details

Target:

Sorting Nexin 2 (SNX2)

Target Details

Alternative Name:	SNX2 (SNX2 Products)
Background:	<p>Sorting nexin-2 (Transformation-related gene 9 protein) (TRG-9),FUNCTION: Involved in several stages of intracellular trafficking. Interacts with membranes containing phosphatidylinositol 3-phosphate (PtdIns(3P)) or phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2) (PubMed:16179610). Acts in part as component of the retromer membrane-deforming SNX-BAR subcomplex (PubMed:17101778). The SNX-BAR retromer mediates retrograde transport of cargo proteins from endosomes to the trans-Golgi network (TGN) and is involved in endosome-to-plasma membrane transport for cargo protein recycling. The SNX-BAR subcomplex functions to deform the donor membrane into a tubular profile called endosome-to-TGN transport carrier (ETC) (Probable). Can sense membrane curvature and has in vitro vesicle-to-membrane remodeling activity (PubMed:23085988). Required for retrograde endosome-to-TGN transport of TGN38 (PubMed:20138391). Promotes KALRN- and RHOG-dependent but retromer-independent membrane remodeling such as lamellipodium formation, the function is dependent on GEF activity of KALRN (PubMed:20604901).</p> <p>{ECO:0000269 PubMed:16179610, ECO:0000269 PubMed:17101778, ECO:0000269 PubMed:20138391, ECO:0000269 PubMed:20604901, ECO:0000269 PubMed:23085988, ECO:0000303 PubMed:16179610}.</p>
Molecular Weight:	58.5 kDa
UniProt:	O60749

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:	<p>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 even the most difficult-to-express proteins, including those that require post-translational modifications.</p> <p>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!</p>

Application Details

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)